

# JVC

## SERVICE MANUAL

### COLOR TELEVISION

# AV-32D503<sub>/Y /R /M</sub>

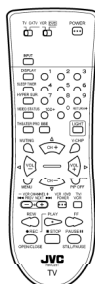
# AV-32D303<sub>/Y /R /M</sub>

# AV-32D203<sub>/Y /R /M</sub>

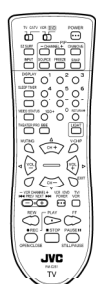
BASIC CHASSIS

GE

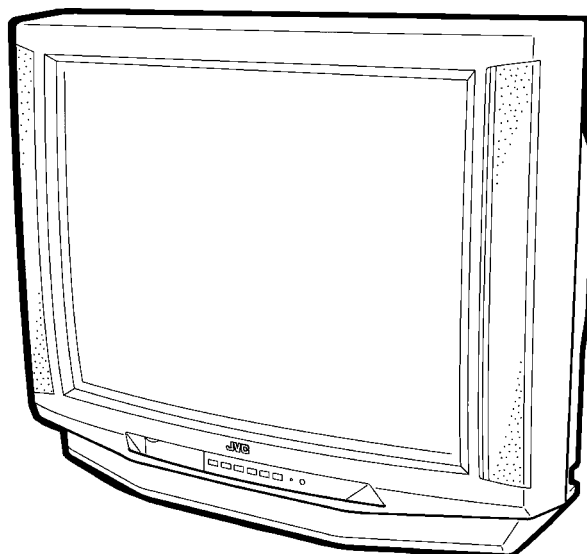
## UBE



[RM-C252]  
AV-32D303, 203



[RM-C251]  
AV-32D503



## CONTENTS

■ SPECIFICATIONS .....	2
■ SAFETY PRECAUTIONS .....	3
■ FEATURES .....	4
■ FUNCTIONS .....	4
■ MAIN DIFFERENCE LIST .....	6
■ HOW TO IDENTIFY MODELS .....	7
■ SPECIFIC SERVICE INSTRUCTIONS .....	8
■ SERVICE ADJUSTMENTS .....	13
■ PARTS LIST .....	35

★ STANDARD CIRCUIT DIAGRAM .....	2-1
----------------------------------	-----

AV-32D503  
AV-32D303  
AV-32D203

# SPECIFICATIONS

ITEMS	CONTENTS
<b>Dimensions (W×H×D)</b>	33-7/8"×27×21-5/8" (859mm×684mm×548mm)
<b>Mass</b>	114.4lbs / 52.0kg
<b>TV System and Color system</b>	
<b>TV RF System</b>	CCIR(M)
<b>Color System</b>	NTSC-M
<b>Sound System</b>	BTSC (Multi Channel Sound)
<b>TV Receiving Channels and Frequency</b>	
<b>VL Band</b>	(02~06) 54MHz~88MHz
<b>VH Band</b>	(07~13) 174MHz~216MHz
<b>UHF Band</b>	(14~69) 470MHz~806MHz
<b>CATV Receiving Channels and Frequency</b>	
<b>Low Band</b>	(02~06, A-8) by (02~06&01)
<b>High Band</b>	(07~13) by (07~13)
<b>Mid Band</b>	(A~1) by (14~22)
<b>Super Band</b>	(J~W) by (23~36)
<b>Hyper Band</b>	(W+1~W+28) by (37~64)
<b>Ultra Band</b>	(W+29~W+84) by (65~125)
<b>Sub Mid Band</b>	(A8, A4~A1) by (01, 96~99)
<b>TV/CATV Total Channel</b>	180 Channels
<b>Intermediate Frequency</b>	
<b>Video IF Carrier</b>	45.75 MHz
<b>Sound IF Carrier</b>	41.25 MHz (4.5MHz)
<b>Color Sub Carrier</b>	3.58 MHz
<b>Power Input</b>	120V AC, 60Hz
<b>Power Consumption</b>	133W [AV-32D503]
	128W [AV-32D303, AV-32D203]
<b>Picture Tube</b>	32" (80cm) measured diagonally, Full Square
<b>High Voltage</b>	31kV ±1.3kV (at zero beam current)
<b>Speaker</b>	2"×4-3/4" (5×12cm) Oval type × 2
<b>Audio Power Output</b>	5W+5W
<b>Input terminals</b>	
<b>INPUT1</b>	
<b>Video</b>	1Vp-p, 75 Ω, RCA pin
<b>S-Video</b>	Mini din 4 pin
Y :	1Vp-p, negative sync provided when terminated with 75 Ω
C :	0.286Vp-p, burst signal when terminated with 75 Ω
<b>INPUT2</b>	
<b>Audio L/R</b>	500mVrms (-4dBs), high impedance, RCA pin
<b>Video</b>	1Vp-p, 75 Ω, RCA pin
<b>Component (Y, Pb, Pr)</b>	RCA pin
Y :	1Vp-p, negative sync provided when terminated with 75 Ω
Pb/Pr :	0.7Vp-p, 75 Ω
<b>INPUT3</b>	
<b>Audio L/R</b>	500mVrms (-4dBs), high impedance, RCA pin
<b>Video</b>	1Vp-p, 75 Ω, RCA pin
<b>Audio L/R</b>	500mVrms (-4dBs), high impedance, RCA pin
<b>Audio Output</b>	500mVrms (-4dBs), low impedance, 1kHz when modulated 100%, RCA pin
<b>AV Compu linkⅢ interface</b>	3.5mm mini jack
<b>Antenna terminal</b>	75 Ω (VHF/UHF) Terminal, F-Type Connector
<b>Remote Control Unit</b>	RM-C251 (AA/R6/UM-3 battery × 2) [AV-32D503]
	RM-C252 (AA/R6/UM-3 battery × 2) [AV-32D303, AV-32D203]

*Design & specifications are subject to change without notice.*

# SAFETY PRECAUTIONS

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
4. **Use isolation transformer when hot chassis.**  
The chassis and any sub-chassis contained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.
5. **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**  
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED(NEUTRAL) : (⌋) side GND and EARTH : (⊕) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.  
If above note will not be kept, a fuse or any parts will be broken.
6. If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).
7. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
8. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.
9. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

## 10. Isolation Check

### (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

### (1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.

(... Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)

This method of test requires a test equipment not generally found in the service trade.

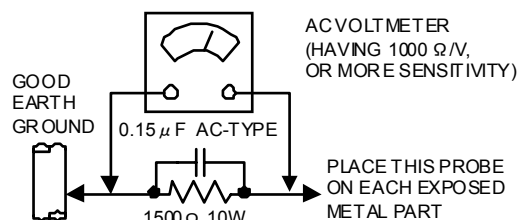
### (2) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

#### ● Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



## 11. High voltage hold down circuit check.

After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly.

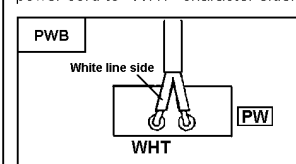
See item "How to check the high voltage hold down circuit".

This mark shows a fast operating fuse, the letters indicated below show the rating.



### POWER CORD REPLACEMENT WARNING.

Connecting the white line side of power cord to "WHT" character side.



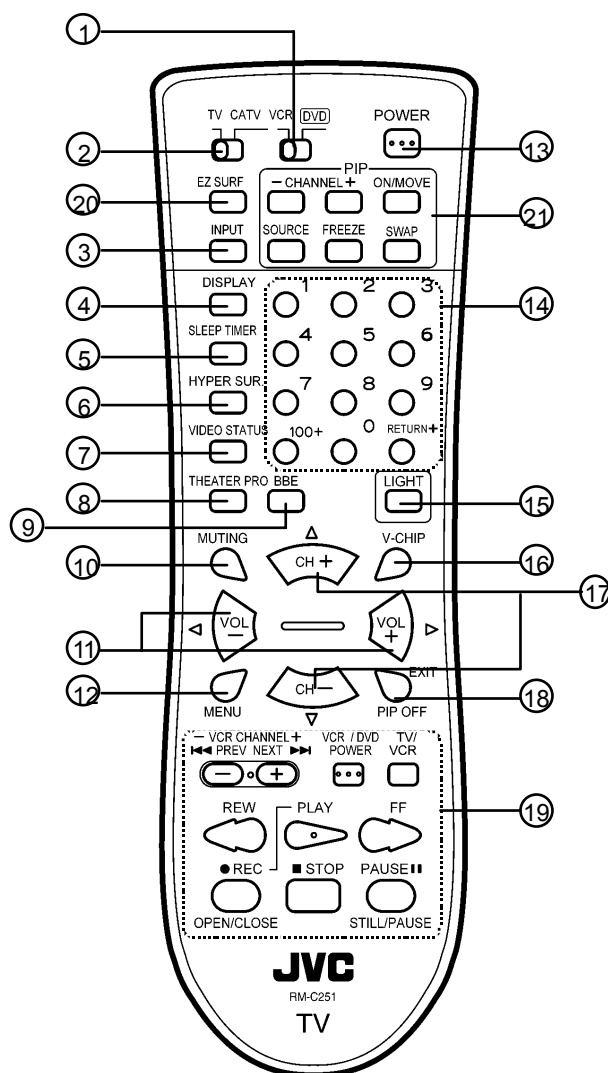
# FEATURES

- Title TELE-TEXT broadcast of C1, C2, T1, and T2 formula is receivable.
- The voice multiplex function of the MTS system is built in.
- By the THEATER PRO function, a reality to which it is viewing and listening in the movie theater can be tasted.
- By the EZ SURF function, channel ID and a program name are displayed in the screen automatically [Only for AV-32D503].
- By the COMPU LINK III function, operation interlocked with the DVD deck can be performed from remote control.
- By the three-line digital comb filter, the refreshed image can be seen.
- Two programs can be displayed on the screen by the 2 tuner PIP circuit [Only for AV-32D503].
- Expression of a favorite screen can be chosen by the VIDEO STATUS function.
- A program can be enjoyed with a powerful sound by the HYPER SURROUND function.
- Since the V chip is built in, it can choose, view and listen to a healthy program.
- The RETURN PLUS function is built in.
- A quick favorite program can be looked for by the HYPER-SCAN function.
- Since the component signal input terminal is equipped, it reappears direct without deteriorating the signal from DVD.

# FUNCTIONS

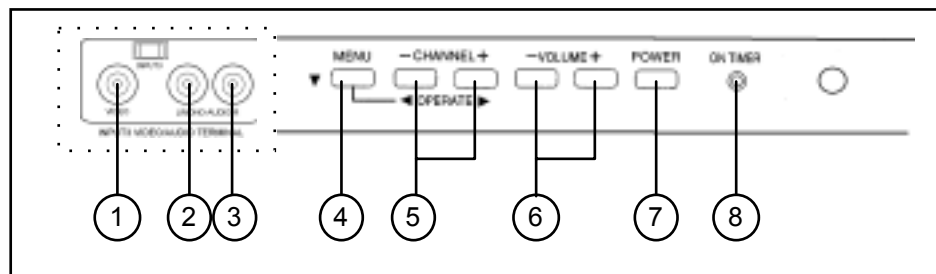
## REMOTE CONTROL UNIT (RM-C251, RM-C252)

This illustration is written about RM-C251. There are no buttons of ⑳ EZ SURF and ㉑ PIP in the RM-C252.



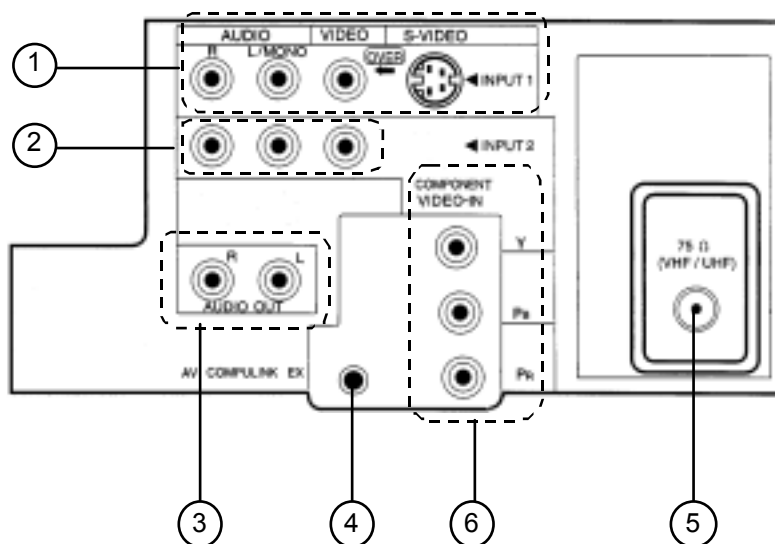
- |   |   |
|---|---|
| ① | VCR / DVD KEY                                       |
| ② | TV / CATV KEY                                       |
| ③ | INPUT KEY   |
| ④ | DISPLAY KEY   |
| ⑤ | SLEEP TIMER KEY                                     |
| ⑥ | HYPER SURROUND KEY                                  |
| ⑦ | VIDEO STATUS KEY                                    |
| ⑧ | THEATER PRO KEY                                     |
| ⑨ | BBE KEY   |
| ⑩ | MUTING KEY  |
| ⑪ | VOLUME +/- and CURSOR ◀/▶ KEY (In the MENU screen)  |
| ⑫ | MENU KEY  |
| ⑬ | POWER KEY   |
| ⑭ | CHANNEL NUMBER KEY                                  |
| ⑮ | LIGHT KEY   |
| ⑯ | V-CHIP KEY  |
| ⑰ | CHANNEL +/- and CURSOR ▲/▼ KEY (In the MENU screen) |
| ⑱ | EXIT KEY  |
| ⑲ | VCR CONTROL KEY                                     |
| ⑳ | EZ SURF KEY [Only for RM-C251]                      |
| ㉑ | PIP CONTROL KEY [Only for RM-C251]                  |

## FRONT PANEL CONTROLS



① INPUT 3 VIDEO TERMINAL	⑥ VOLUME $\pm$ KEY
② INPUT 3 AUDIO L TERMINAL	⑦ POWER KEY
③ INPUT 3 AUDIO R TERMINAL	⑧ ON TIMER / POWER LED
④ MENU KEY, MENU $\nabla$ KEY	
⑤ CHANNEL $\pm$ KEYS MENU $\blacktriangleleft$ / $\blacktriangleright$ KEYS	

## REAR TERMINAL



① INPUT 1 TERMINAL (S-VIDEO, V, L, R)
② INPUT 2 TERMINAL (V, L, R)
③ AUDIO OUTPUT TERMINAL
④ AV COMPULINK $\equiv$ TERMINAL
⑤ ANTENNA TERMINAL
⑥ INPUT 2 COMPONENT SIGNAL TERMINAL (Y, Pb, Pr)

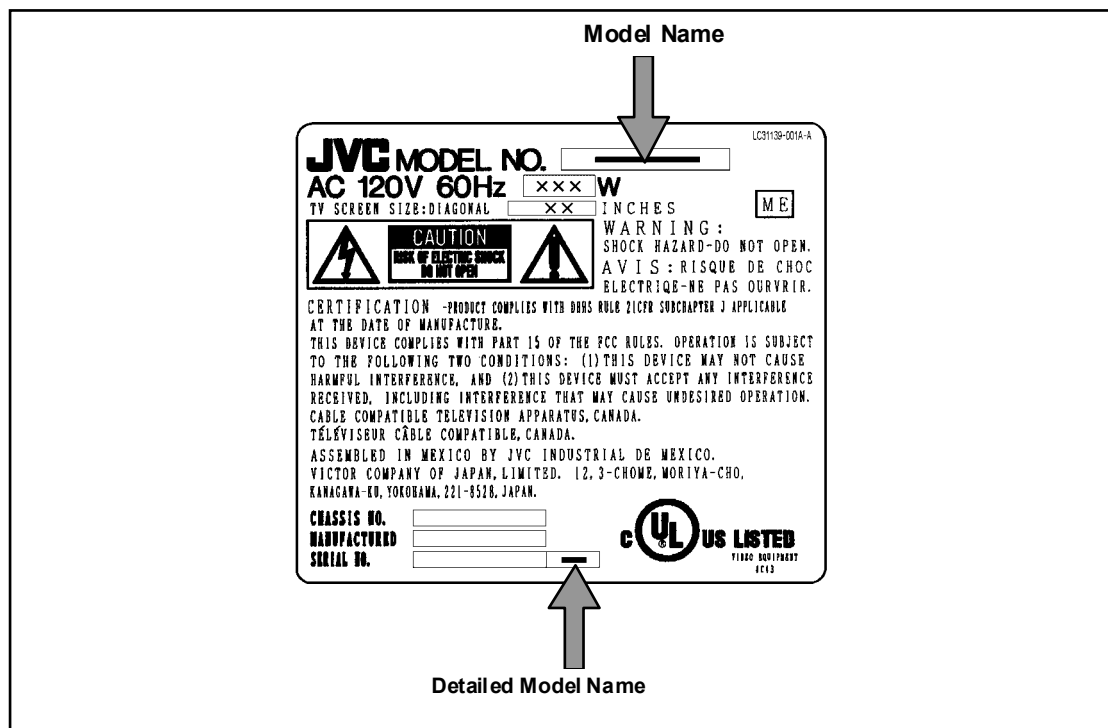
AV-32D503  
 AV-32D303  
 AV-32D203

# MAIN DIFFERENCE LIST

PARTS NAME	MODEL	/Y	/R	/M
ITC TUBE (Inc. DY, PC MAGNET, WEDGE)	AV-32D503	A80AKB50X04	A80AEJ15X01	A80JUA061X06
MAIN PWB		SGE-1003A-M2	SGE-1022A-M2	SGE-1021A-M2
CRT SOCKET PWB		SGE-3004A-M2	SGE-3007A-M2	SGE-3006A-M2
PIP PWB		SGE-5001A-M2	←	←
E-COAXIAL ASSY		WJX0014-002A	←	←
CONTROL KNOB		LC20217-005B-A	←	←
JVC MARK		CM48006-007-C	←	←
FRONT CABI. ASSY		LC10641-005B-A	←	←
DOOR		LC20409-005B-A	←	←
REMOCON UNIT		RM-C251-1H	←	←
ITC TUBE (Inc. DY, PC MAGNET, WEDGE)	AV-32D303	A80AKB50X04	A80AEJ15X01	A80JUA061X06
MAIN PWB		SGE-1006A-M2	SGE-1028A-M2	SGE-1027A-M2
CRT SOCKET PWB		SGE-3004A-M2	SGE-3007A-M2	SGE-3006A-M2
PIP PWB		x	x	x
E-COAXIAL ASSY		x	x	x
CONTROL KNOB		LC20217-005B-A	←	←
JVC MARK		CM48006-007-C	←	←
FRONT CABI. ASSY		LC10641-005B-A	←	←
DOOR		LC20409-005B-A	←	←
REMOCON UNIT		RM-C252-1H	←	←
ITC TUBE (Inc. DY, PC MAGNET, WEDGE)	AV-32D203	A80AKB50X04	A80AEJ15X01	A80JUA061X06
MAIN PWB		SGE-1006A-M2	SGE-1028A-M2	SGE-1027A-M2
CRT SOCKET PWB		SGE-3004A-M2	SGE-3007A-M2	SGE-3006A-M2
PIP PWB		x	x	x
E-COAXIAL ASSY		x	x	x
CONTROL KNOB		LC20217-001C-A	←	←
JVC MARK		CM48006-006-C	←	←
FRONT CABI. ASSY		LC10641-001G-A	←	←
DOOR		LC20409-001D-A	←	←
REMOCON UNIT		RM-C252-1H	←	←

# HOW TO IDENTIFY MODELS

How to recognize from the appearance of the model concerned is written below. Please distinguish from several contents currently printed on the rating label.



	Model Name	Detailed Model Number
AV-32D503 /Y	AV-32D503	Y
AV-32D503 /R		R
AV-32D503 /M		M
AV-32D303 /Y	AV-32D303	Y
AV-32D303 /R		R
AV-32D303 /M		M
AV-32D203 /Y	AV-32D203	Y
AV-32D203 /R		R
AV-32D203 /M		M

# SPECIFIC SERVICE INSTRUCTIONS

## DISASSEMBLY PROCEDURE

### REMOVING THE REAR COVER

- Unplug the power plug.
1. As shown in Fig.2, remove the **12** screws marked **(A)**.
  2. Remove the rear cover toward you.

#### Note :

When reinstalling the rear cover, carefully push it inward after inserting the chassis into the rear cover groove.

### REMOVING THE CHASSIS BASE

- After removing the rear cover.
1. Slightly raise the both sides of the chassis base by hand, and remove the **2** claws marked **(B)** (Fig.1 and Fig.2) under the both sides of the chassis from the chassis rail.
  2. As shown in Fig.1, draw the chassis base backward along the chassis rail marked **(C)** in the arrow direction marked **(D)** (Fig.2). (If necessary, detach the wire clamp, connector's etc.)

#### Note :

When conducting a check with power supplied, be sure to confirm that the CRT earth wire is connected to the CRT SOCKET PWB and the MAIN PWB.

### REMOVING THE TERMINAL BOARD

- After removing the rear cover.
1. As shown in Fig.2, remove the **4** screws marked **(E)**.
  2. When you pull out the TERMINAL BOARD, it can be removed.

### REMOVING THE FRONT CONTROL PW BOARD

- After removing the rear cover and chassis base.
1. As shown in Fig.2, remove the **2** screws marked **(F)** attached the FRONT CONTROL PWB with the front cabinet.
  2. Then remove the FRONT CONTROL PWB.

### REMOVING THE FRONT AV IN PW BOARD

- After removing the rear cover and chassis base.
1. As shown in Fig.2, remove the **2** screws marked **(G)**.
  2. Then remove the FRONT AV IN PWB.

### REMOVING THE SPEAKER

- After removing the rear cover and chassis base.
1. As shown in Fig.2, remove the **4** screws marked **(H)**.
  2. Follow the same steps when removing the other hand speaker.

### CHECKING THE MAIN PW BOARD

1. To check the backside of the MAIN PW Board.
  - (1) Pull out the chassis base. (Refer to REMOVING THE CHASSIS BASE).
  - (2) Erect the chassis vertically so that you can easily check from the backside of the MAIN PWB.

### CAUTION

- When erecting the chassis, be careful so that there will be no contacting with other PWB.
- Before turning on power, make sure that the CRT earth wire and other connectors are properly connected.

### WIRE CLAMPING AND CABLE TYING

1. Be sure to clamp the wire.
2. Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

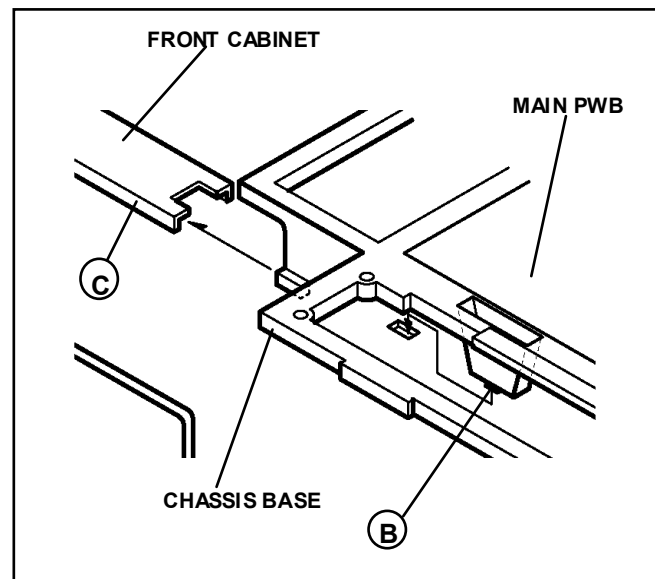


Fig. 1



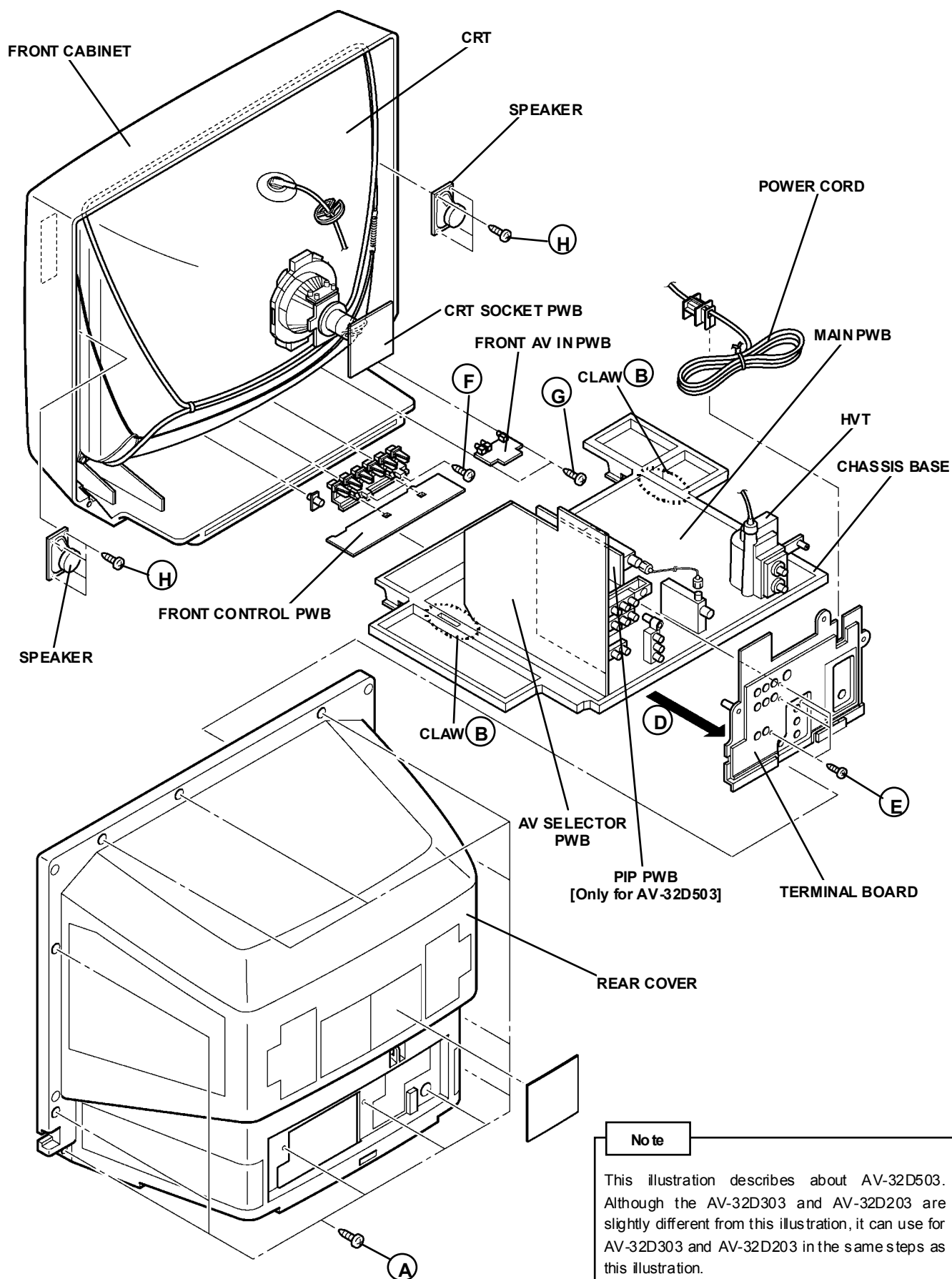


Fig.2

## MEMORY IC REPLACEMENT

### 1. Memory IC

This model uses the memory IC.

This memory IC stores data for proper operation of the video/chroma and deflection circuits.

When replacing, be sure to use the IC containing initial setting data.

### 2. Memory IC replacement procedure

#### (1) Power off

Switch off the power and disconnect the power plug from the AC outlet.

#### (2) Replace the memory IC

Be sure to use the memory IC written with the initial setting values.

#### (3) Power on

Connect the power plug to the AC outlet and switch on the power.

#### (4) System constant check and setting

- ① Press the **SLEEP TIMER** key and set SLEEP TIMER for 「0 min」.
- ② Before disappear the display of SLEEP TIMER settings, simultaneously press the **DISPLAY** key and **VIDEO STATUS** key of the remote control unit.  
The SERVICE MENU screen of Fig.1 will be displayed.
- ③ While the SERVICE MENU is displayed, select the SYSTEM(SYS) item with **CURSOR ▼/▲** key and go into with **◀/▶** keys. Then the SYSTEM mode screen will be displayed as shown in Fig.2.
- ④ Refer to the table of SYSTEM CONSTANT given in page later, and check the each item. If the value is different, select the setting item with the **CURSOR ▼/▲** key, and setting with the **CURSOR ▶/◀** keys. (The letters of the selected item are displayed in yellow.)
- ⑤ When adjustment has completed, the values store into memory IC automatically.
- ⑥ Press the **EXIT** key twice to return to the normal screen.

#### (5) Receiving channel setting

Refer to the OPERATING INSTRUCTIONS and set the receive channels (Channels Preset) as described.

#### (6) User settings

Check the user setting items according to the Table 2 given in page later.  
Where these do not agree, refer to the OPERATING INSTRUCTIONS and set the items as described.

#### (7) SERVICE MENU setting

Verify what to set in the SERVICE MENU, and set whatever is necessary (Fig.1). Refer to the SERVICE ADJUSTMENT for setting.

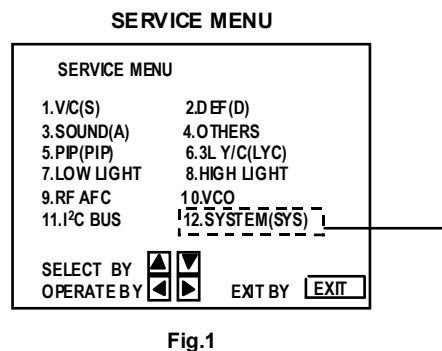


Fig.1

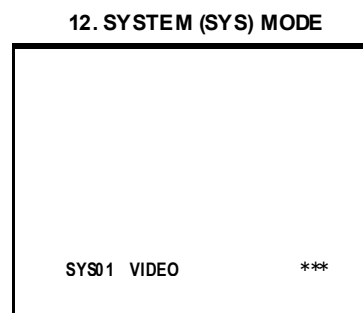
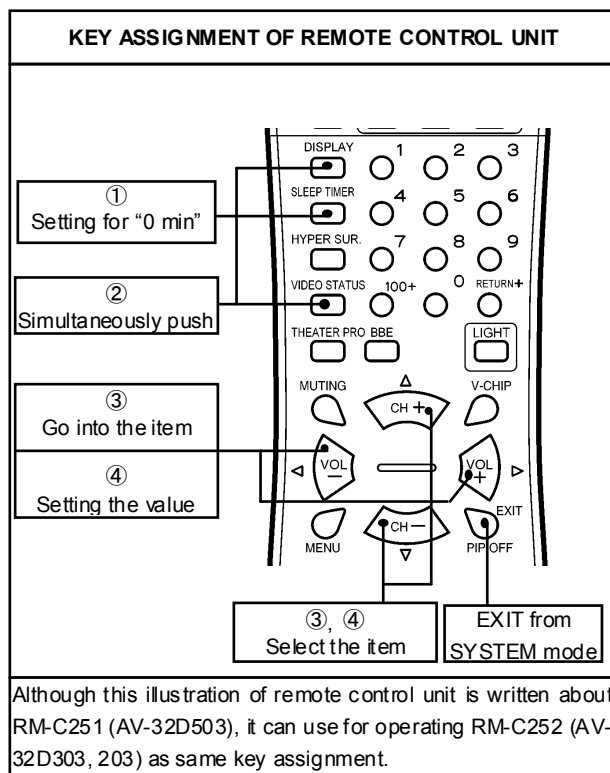


Fig.2



**VALUES OF SYSTEM CONSTANT (TABLE 1)**

ITEM	CONTENTS	VARIABLE RANGE	INITIAL SETTING VALUE	
			AV-32D503	AV-32D303, 203
SYS01	VIDEO IN	0~4	3	3
SYS02	PIP	0~1	1	0
SYS03	3D Y/C	0~1	0	0
SYS04	Y CV	0~1	1	1
SYS05	CCD PCHK	0~1	1	1
SYS06	PURITY	0~1	0	0
SYS07	VM	0~1	0	0
SYS08	NOISE CR	0~1	0	0
SYS09	CLR TEMP	0~1	1	1
SYS10	THEATER	0~1	1	1
SYS11	THEATER PRO	0~1	1	1
SYS12	BBE	0~1	1	1
SYS13	HYP SURR	0~1	1	1
SYS14	16:9 MD	0~1	0	0
SYS15	HYP SCAN	0~1	1	1
SYS16	EZ SURF	0~1	1	0
SYS17	ID DISP	0~1	1	1
SYS18	COMPULINK	0~1	1	1
SYS19	CCD	0~1	1	1
SYS20	VCHIP	0~1	1	1
SYS21	VCHIP CA	0~1	1	1
SYS22	JVC LOGO	0~1	1	1
SYS23	CMP IN	0~1	1	1
SYS24	CXA1875	0~1	0	0

AV-32D503  
AV-32D303  
AV-32D203

## VALUES OF USER SETTING ITEMS (TABLE2)

Setting of switches on front panel and remote control unit

ITEM	INITIAL SETTING VALUE	ITEM	INITIAL SETTING VALUE
POWER	OFF	DISPLAY	OFF
CHANNEL	CABLE CH-02	VIDEO STATUS	DYNAMIC
VOLUME	10	PIP SOURCE	CABLE CH-04 [Only AV-32D503]
INPUT	TV	PIP POSITION	Left lower side [Only AV-32D503]
HYPERSURROUND	OFF	SLEEP TIMER	0
BBE	ON		

Setting of MENU screen

PICTURE ADJUST		INITIAL SETUP	
TINT	CENTER	LANGUAGE	ENG
COLOR	CENTER	FRONT PANEL LOCK	OFF
PICTURE	+8	V2 COMPONENT-IN	NO
BRIGHT	CENTER	AUTO SHUT OFF	OFF
DETAIL	+10	XDS ID	ON
COLOR TEMPERATURE	HIGH	CLOSED CAPTION	OFF
NOISE MUTING	ON		CAPTION : CC1
			TEXT : T1
SOUND ADJUST		AUTO TUNER SET UP	TUNER MODE : CABLE
BASS	CENTER	CHANNEL SUMMARY	Unnecessary to set
TREBLE	CENTER	V-CHIP	OFF
BALANCE	CENTER	SET US TV RATINGS	ALL CLEAR
MTS	STEREO	SET MOVIE RATINGS	ALL CLEAR
CLOCK / TIMERS		SET CANADIAN RATINGS ENG	ALL CLEAR
SET CLOCK	MANUAL	SET CANADIAN RATINGS FRE	ALL CLEAR
	TIME ZONE : PACIFIC	UNRATED	VIEW
	D.S.T : OFF	SET LOCK CODE	"0000"
ON/OFF TIMER	OFF		

# SERVICE ADJUSTMENTS

## BEFORE STARTING SERVICE ADJUSTMENT

1. There are 2 way of adjusting this TV: One is with the remote control unit and the other is the conventional method using adjustment parts and components.
2. The adjustment with the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to its optimum condition may differ from the initial setting values.
3. Make sure that connection is correctly made to AC power source.
4. Turn on the power of the set and equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
5. Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
6. Never touch any adjustment parts, which are not specified in the list for this adjustment VRs, transforms, condensers, etc.
7. Preparation for adjustment  
Unless otherwise specified in the adjustment instructions, preset the following functions with the REMOTE CONTROL UNIT.

User menu preset value

MENU ITEM	PRESET VALUE
VIDEO STATUS	STANDARD
TINT, COLOR, PICTURE BRIGHT, DETAIL	CENTER
NOISE MUTING	OFF
COLOR TEMPERATURE	LOW
PIP [Only for AV-32D503]	OFF
BASS, TREBLE, BALANCE	CENTER
HYPER SURROUND	OFF
MTS	STEREO

## MEASURING INSTRUMENT AND FIXTURES

1. DC voltmeter (or digital voltmeter)
2. Oscilloscope
3. Signal generator (Pattern generator) [NTSC]
4. Remote control unit
5. TV audio multiplex signal generator
6. Frequency counter

## ADJUSTMENT ITEMS

### BASIC ADJUSTMENT

- Check of B1 power supply
- MAIN / SUB VCO adjustment
- RF AGC adjustment
- FOCUS adjustment

### DEFLECTION CIRCUIT ADJUSTMENT

- V. CENTER / V SIZE adjustment
- H SIZE / H POSITION / SIDE PINCUSHION adjustment

### VIDEO / CHROMA CIRCUIT ADJUSTMENT

- WHITE BALANCE adjustment ~LOW LIGHT~
- WHITE BALANCE adjustment ~HIGH LIGHT~
- SUB BRIGHT adjustment
- SUB CONTRAST adjustment
- SUB COLOR adjustment
- SUB TINT adjustment

### PIP CIRCUIT ADJUSTMENT

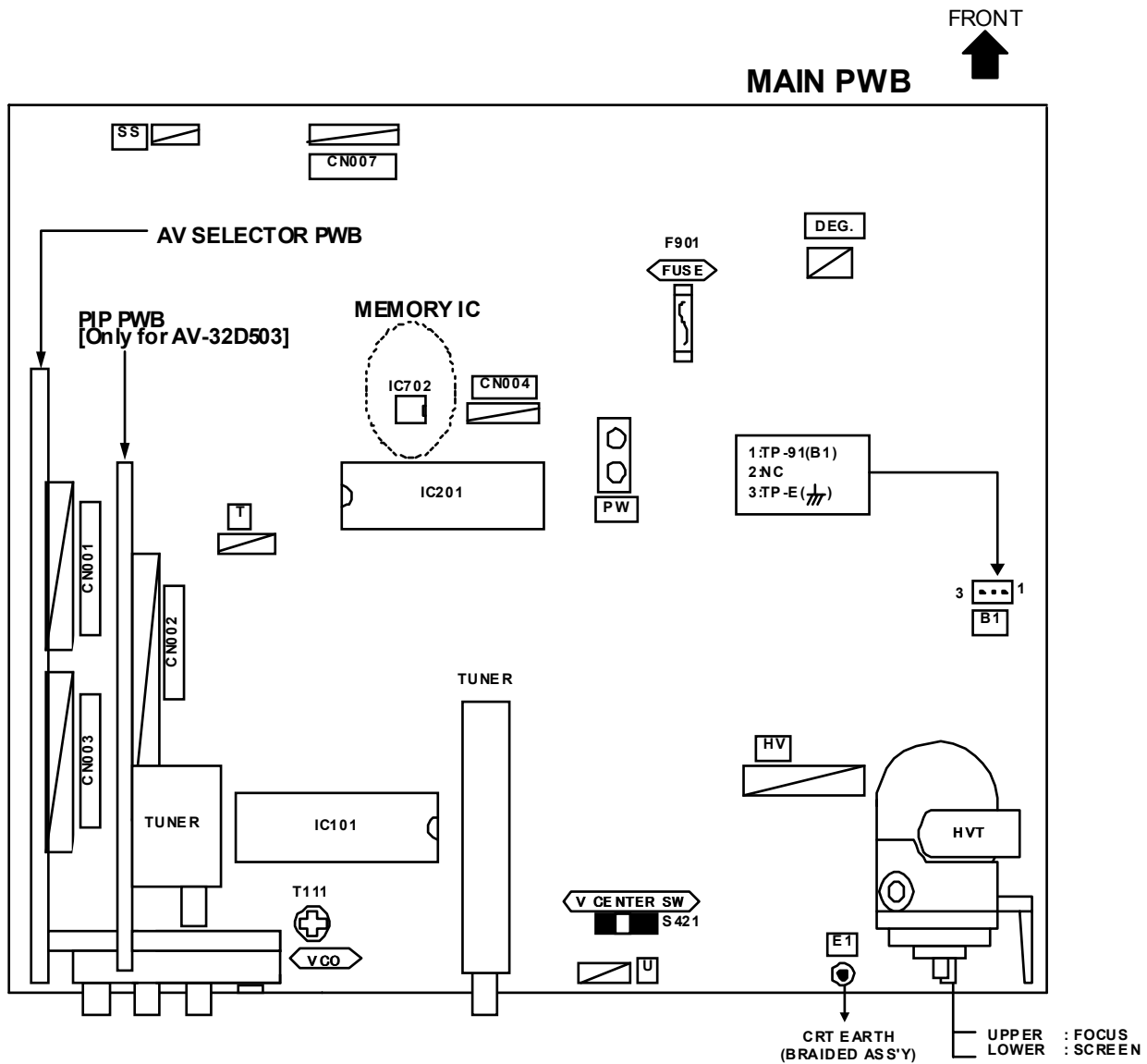
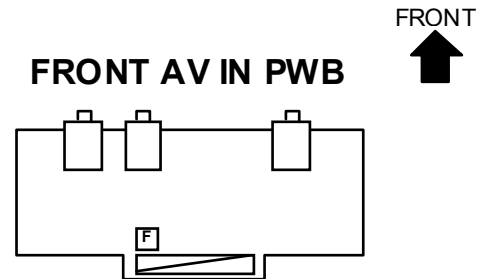
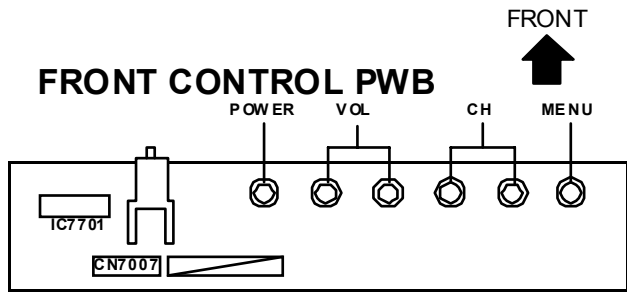
- WHITE BALANCE adjustment ~HIGH LIGHT~
- DISPLAY POSITION adjustment

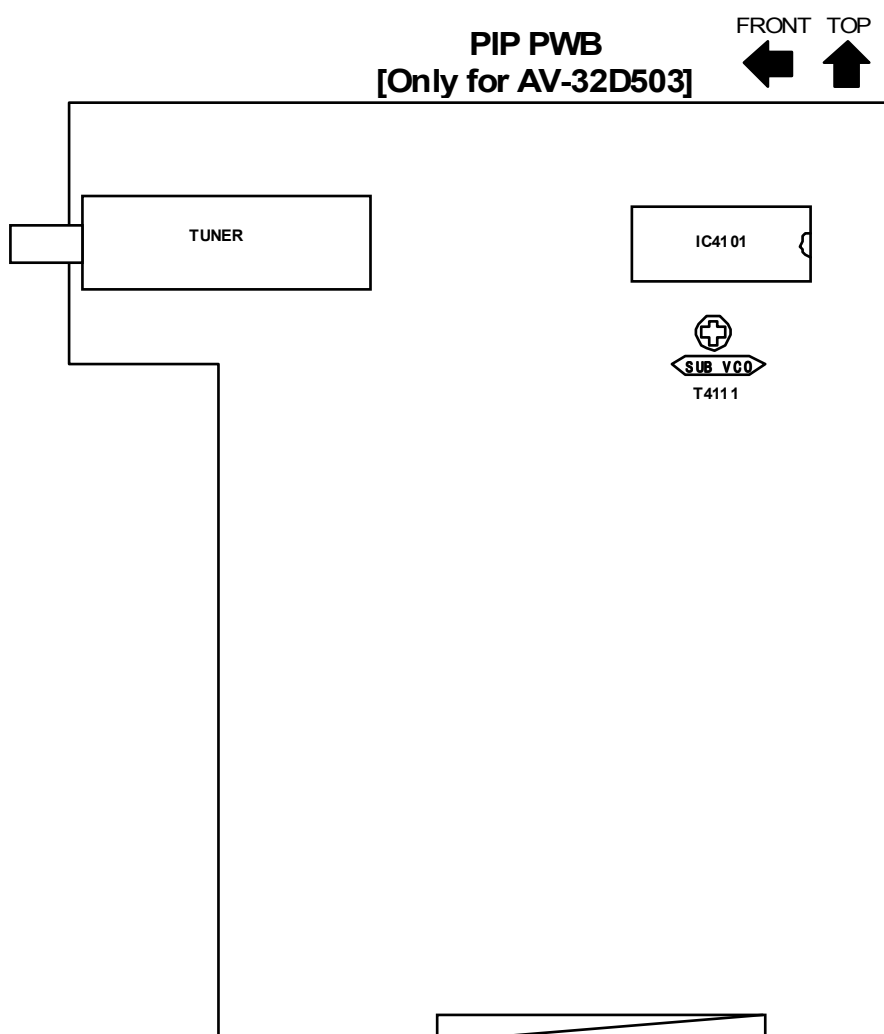
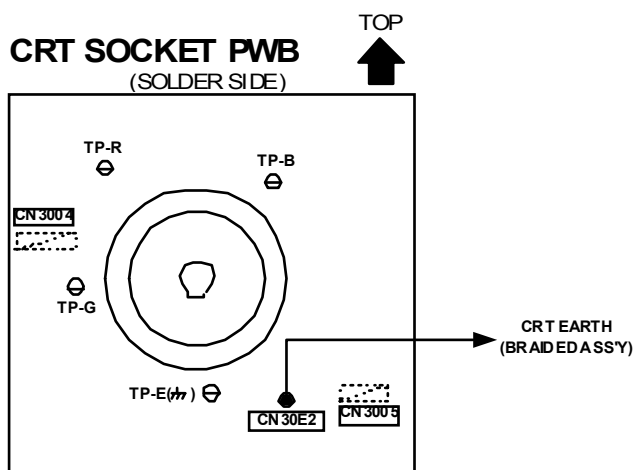
### MTS CIRCUIT ADJUSTMENT

- INPUT LEVEL check
- SEPARATION adjustment

AV-32D503  
AV-32D303  
AV-32D203

## ADJUSTMENT LOCATIONS





## BASIC OPERATION OF SERVICE MENU

### 1. TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

### 2. SERVICE MENU ITEMS

With the SERVICE MENU, various settings (adjustments) can be made, and they are broadly classified in the following items of adjustments.

- (1) **V/C(S)** ..... VIDEO / CHROMA related circuit adjustment mode
- (2) **DEFLECTION(D)** ..... DEFLECTION related circuit adjustment mode
- (3) **SOUND(A)** ..... SOUND related circuit adjustment mode
- (4) **OTHERS(F)** ..... Whole system related items adjustment mode
- (5) **PIP(PIP)**[Only for AV-32D503] ..... PIP related circuit adjustment mode
- (6) **3L Y/C(LYC)** ..... 3 line YC separation related circuit adjustment mode
- (7) **LOW LIGHT** ..... White balance of "LOW LIGHT" adjustment mode
- (8) **HIGH LIGHT** ..... White balance of "HIGH LIGHT" adjustment mode
- (9) **RF AFC** ..... RF AFC related circuit adjustment mode
- (10) **VCO** ..... VCO related circuit adjustment mode
- (11) **I<sup>2</sup>C BUS** ..... I<sup>2</sup>C bus related circuit adjustment mode **[Fixed on]**
- (12) **SYSTEM(SYS)** ..... This mode is used when setting up the whole system.

### 3. BASIC OPERATION OF SERVICE MENU

#### (1) How to enter SERVICE MENU

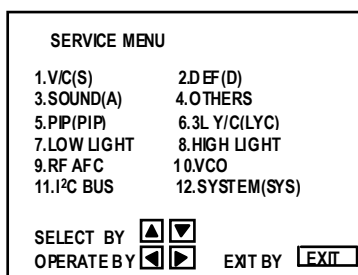
Press the **SLEEP TIMER** key and set the **SLEEP TIMER** for **[0 MIN]**.

Then press the **DISPLAY** key and the **VIDEO STATUS** key of the remote control unit simultaneously, and the SERVICE MENU screen will be displayed as shown below.

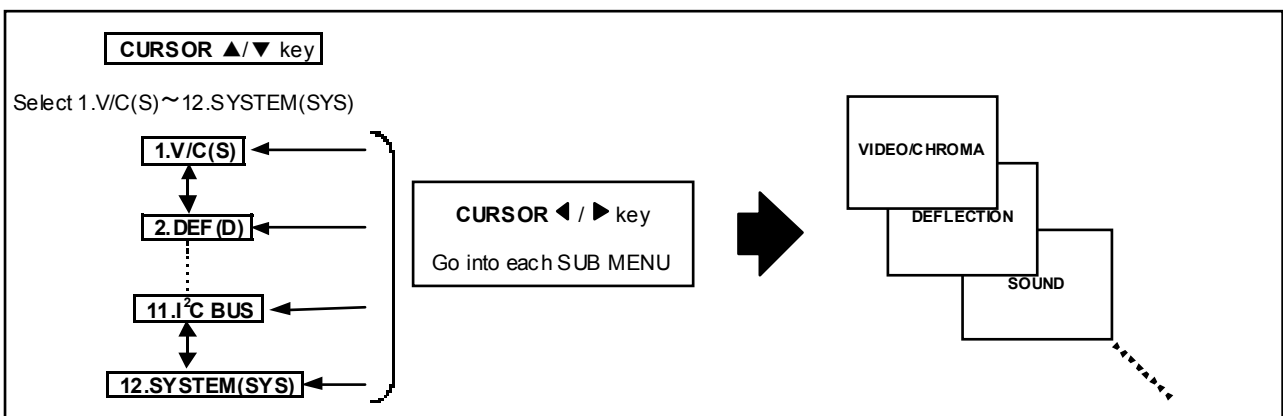
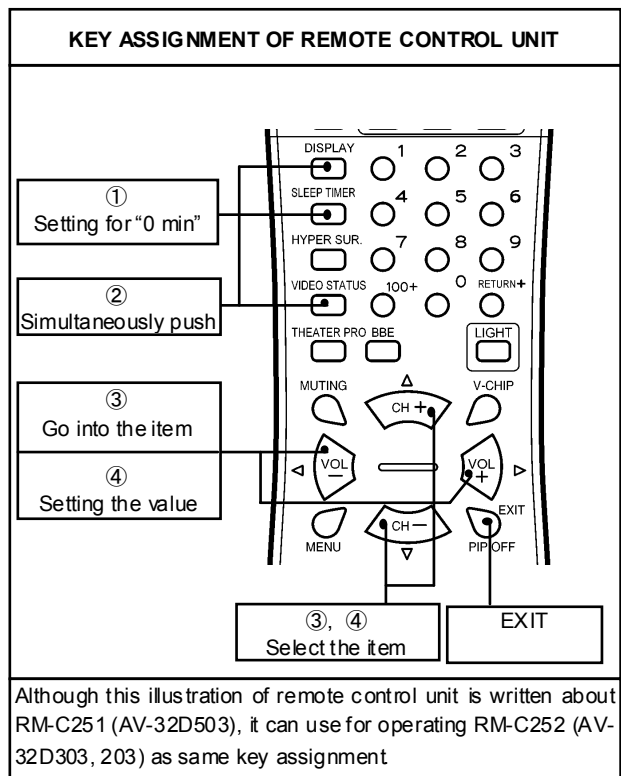
#### (2) Selection of SUB MENU SCREEN

In SERVICE MENU, press the **CURSOR ▲/▼** key to select any of the SUB MENU items. (The letters of the selected items are displayed in yellow)

If an item like to set up becomes yellow, the **CURSOR ◀/▶** key will be pushed and it will go into the mode.



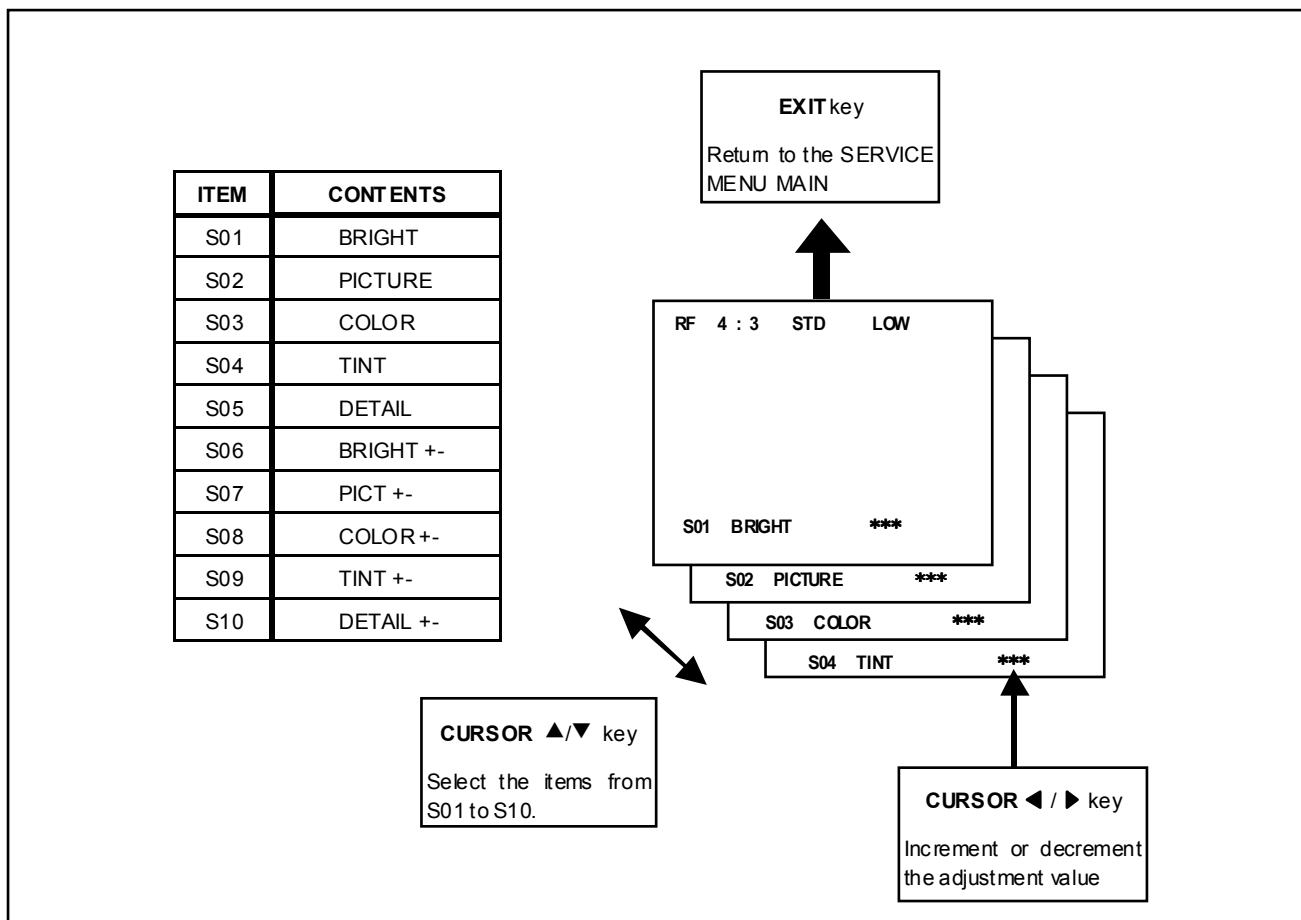
SERVICE MENU





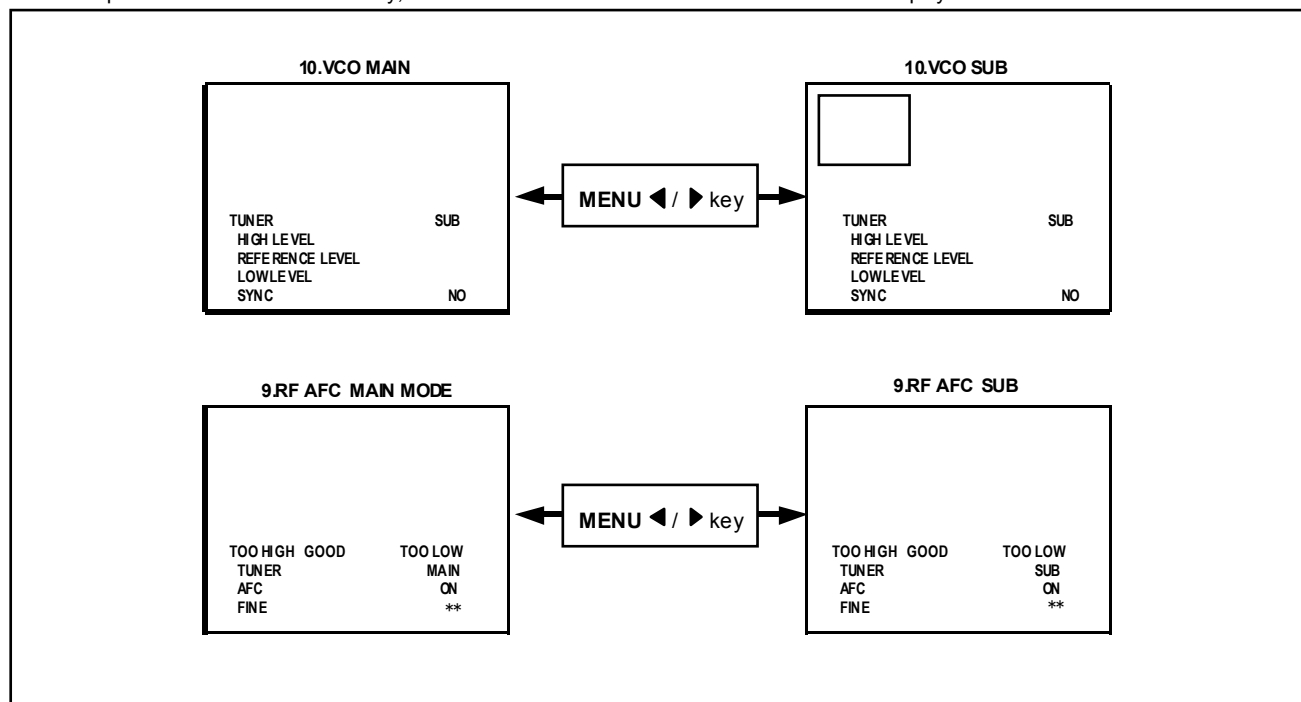
### (3) Method of Setting

For example, the operation in the case of setting up VIDEO/CHROMA is expressed below.

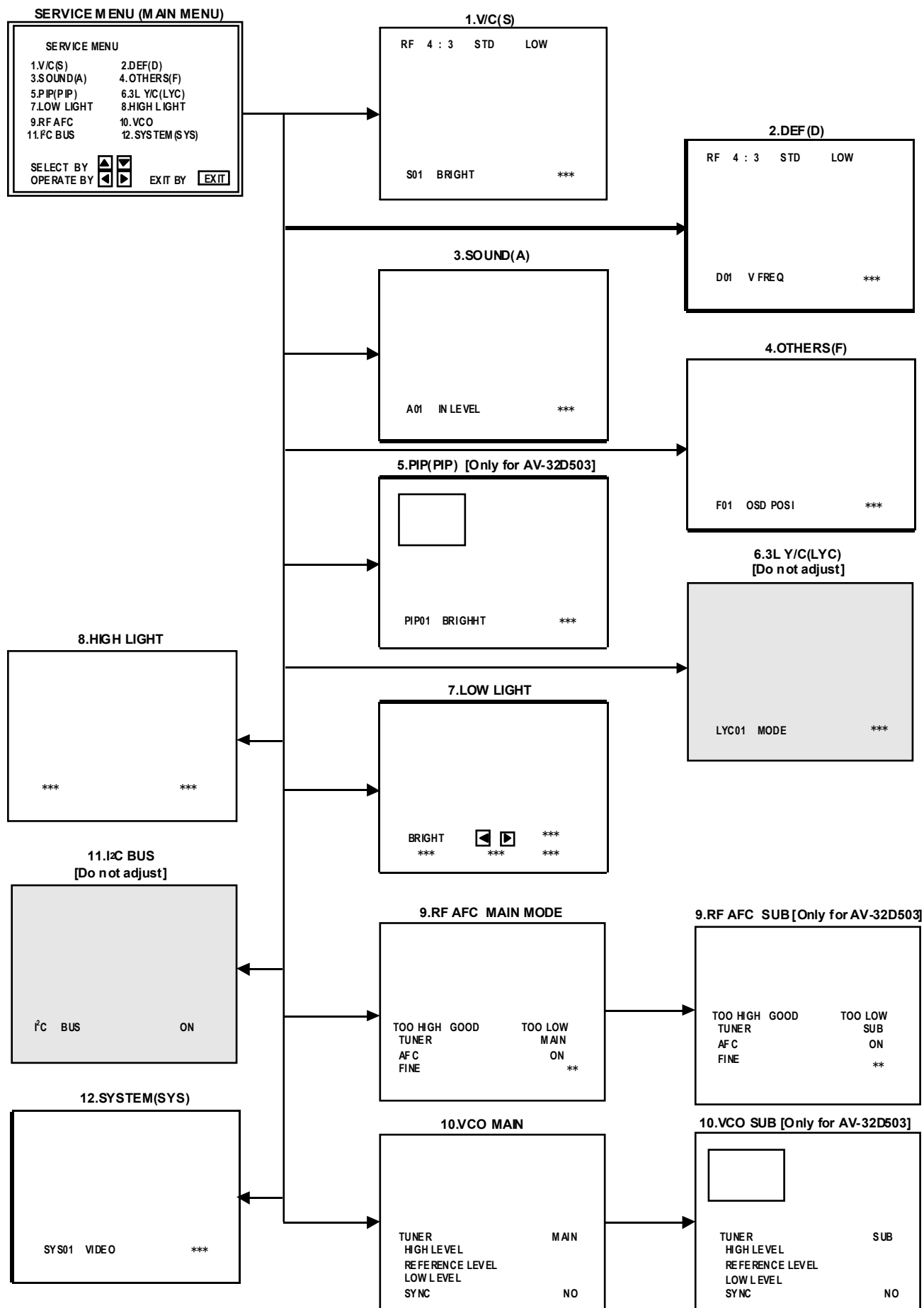


### (4) Others [Only for AV-32D503]

If go into the 9.RF AFC and 10.VCO items, there will be display the RF AFC MAIN screen and VCO MAIN screen. Then press the **CURSOR ◀ / ▶** key, the RF AFC SUB screen and VCO SUB screen is displayed.



AV-32D503  
AV-32D303  
AV-32D203



## INITIAL SETTING VALUE OF SERVICE MENU

1. Adjustment of the SERVICE MENU is made on the basis of the initial setting values ; however, the new setting values which set the screen in its optimum condition may differ from the initial setting.
2. Do not change the initial setting values not listed in "ADJUSTMENT".

### V / C(S) MODE

No	Setting item	Variable range	RF		S-VIDEO COMPOSITE VIDEO
			STANDARD	THEATER	STANDARD
S01	BRIGHT	0~127	64	--	--
S02	PICTURE	0~127	55	--	--
S03	COLOR	0~127	55	--	--
S04	TINT	0~127	64	--	--
S05	DETAIL	0~63	37	--	35
S06	BRIGHT +-	-32 ~ +32	--	+1	-2 [503] / $\pm 0$ [303, 203]
S07	PICT+-	-32 ~ +32	--	-10	$\pm 0$
S08	COLOR+-	-32 ~ +32	--	-3	-2
S09	TINT+-	-32 ~ +32	--	-3	+2
S10	DETAIL+-	-32 ~ +32	--	$\pm 0$	--

No	Setting item	Variable range	COMPONENT INPUT / STANDARD		
			AV-32D503 /Y AV-32D303 /Y AV-32D203 /Y	AV-32D503 /R AV-32D303 /R AV-32D203 /R	AV-32D503 /M AV-32D303 /M AV-32D203 /M
S03	COLOR	0~127	58	62	62
S04	TINT	0~127	78	68	70
S05	DETAIL	0~63	40	40	40
S06	BRIGHT +-	-32 ~ +32	-1 [503] / -3 [303, 203]	-1 [503] / -3 [303, 203]	-1 [503] / -3 [303, 203]
S07	PICT+-	-32 ~ +32	$\pm 0$	$\pm 0$	$\pm 0$

No	Setting item	Variable range	RF / S-VIDEO / COMPOSITE VIDEO				COMPONENT INPUT			
			STANDARD		THEATER		STANDARD		THEATER	
			LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
S11	R CUT OFF	0~255	30	--	--	--	--	--	--	--
S12	G CUT OFF	0~255	30	--	--	--	--	--	--	--
S13	B CUT OFF	0~255	30	--	--	--	--	--	--	--
S14	R DRIVE	0~127	64	--	--	--	--	--	--	--
S15	B DRIVE	0~127	64	--	--	--	--	--	--	--
S16	R CUT+-	-128 ~ +127	--	$\pm 0$	$\pm 0$	$\pm 0$	-10	--	--	--
S17	G CUT+-	-128 ~ +127	--	$\pm 0$	$\pm 0$	$\pm 0$	$\pm 0$	--	--	--
S18	B CUT+-	-128 ~ +127	--	$\pm 0$	$\pm 0$	$\pm 0$	-10	--	--	--
S19	R DRV+-	-128 ~ +127	--	+5	+13	+7	$\pm 0$	--	--	--
S20	B DRV+-	-128 ~ +127	--	+6	-25	-9	$\pm 0$	--	--	--
S21	NTSC MAT	0~3	3	3	1	1	2	2	1	1
S22	BLACK ST	0~3	1	--	1	--	--	--	--	--
S23	DCREST	0~1	1	--	1	--	--	--	--	--
S24	DCRSW	0~1	1	--	1	--	--	--	--	--

AV-32D503  
AV-32D303  
AV-32D203

No	Setting item	Variable range	RF	S-VIDEO COMPOSITE VIDEO	COMPONENT INPUT
S25	ASY SHRP	0~7	5	4	4
S26	BPF FO	0~1	0	0	--
S27	KILR OFF	0~1	0	0	--
S28	KILR SEN	0~1	1	1	--

No	Setting item	Variable range	Initial setting value	No	Setting item	Variable range	Initial setting value
S29	RGB MUTE	0~1	0	S39	Y MUTE	0~1	0
S30	BLUE B	0~1	0	S40	SVM GAIN	0~3	0
S31	VIDEO SW	0~3	3	S41	SVM PH	0~3	0
S32	CMP ABCL	0~1	0	S42	WPL	0~1	0
S33	OSD ABL	0~1	0	S43	COL GMM	0~1	0
S34	OSD CONT	0~63	10	S44	V1 GAIN	0~7	4
S35	SUB CONT	0~15	8	S45	AGC ADJ	0~127	63
S36	ABL GAIN	0~3	0	S46	VMOFF DE	-128~+127	±0
S37	ABL PNT	0~3	3	S47	APC CLK	0~1	1
S38	Y GAMMA	0~3	1				

#### SOUND MODE

No	Setting item	Variable range	Initial setting value	No	Setting item	Variable range	Initial setting value
A01	IN LEVEL	0~15	10	A04	SAPC	0 / 1	0
A02	LOW SEP	0~63	32	A05	BBE BASS	-128~+127	+3
A03	HI SEP	0~63	32	A06	BBE TRE	-128~+127	-4

#### 3L Y / C MODE (Do not adjust)

No	Variable range	Initial setting value	No	Variable range	Initial setting value
LYC01	0~7	4	LYC07	0~1	1
LYC02	0~7	1	LYC08	0~3	0
LYC03	0~1	0	LYC09	0~1	1
LYC04	0~1	0	LYC10	0~1	0
LYC05	0~15	2	LYC11	0~1	0
LYC06	0~1	0	LYC12	0~1	0

DEF MODE

No	Setting item	Variable range	AV-32D503 /Y AV-32D303 /Y AV-32D203 /Y		AV-32D503 /R AV-32D303 /R AV-32D203 /R		AV-32D503 /M AV-32D303 /M AV-32D203 /M	
			RF	S-VIDEO COMPOSITE	RF	S-VIDEO COMPOSITE	RF	S-VIDEO COMPOSITE
D01	V FREQ	0~3	0	3	0	0	0	0
D02	AFC GAIN	0~3	0	2	0	0	0	0
D03	H POSI	0~31	16	16	16	16	16	16
D04	H POSI+-	-128~+127	--	--	--	--	--	--
D05	V PHASE	0~7	0	0	0	0	0	0
D06	V PH+-	-128~+127	--	--	--	--	--	--
D07	V SIZE	0~+127	70	70	70	70	70	70
D08	V SIZE+-	-128~+127	--	--	--	--	--	--
D09	V CENTER	0~63	32	32	32	32	32	32
D10	V CENT+-	-128~+127	--	--	--	--	--	--
D11	V S CORR	0~15	5	5	5	5	5	5
D12	V S CO+-	-128~+127	--	--	--	--	--	--
D13	V LIN	0~15	12	12	12	12	12	12
D14	V LIN+-	-128~+127	--	--	--	--	--	--
D15	H SIZE	0~63	32	32	32	32	32	32
D16	H SIZE+-	-128~+127	--	--	--	--	--	--
D17	WVMT TOP	0~3	0	0	0	0	0	0
D18	WVMT BTM	0~3	0	0	0	0	0	0
D19	EWCR TOP	0~31	12	12	12	12	12	12
D20	EWCR T+-	-128~+127	--	--	--	--	--	--
D21	EWCR BTM	0~31	15	15	15	15	15	15
D22	EWCR B+-	-128~+127	--	--	--	--	--	--
D23	EW PARA	0~63	36	36	36	36	36	36
D24	EW PARA+-	-128~+127	--	--	--	--	--	--
D25	V EHT	0~7	0	0	0	0	0	0
D26	V EHT+-	-128~+127	--	--	--	--	--	--
D27	H EHT	0~7	0	0	0	0	0	0
D28	H EHT+-	-128~+127	0	--	0	0	0	0
D29	TRAPEZ	0~63	35	35	35	35	35	35
D30	TRAPEZ+-	-128~+127	--	--	--	--	--	--
D31	V AGC	0~1	0	0	0	0	0	0
D32	BLANK SW	0~1	0	0	0	0	0	0
D33	VRMP BI	0~1	0	0	0	0	0	0

AV-32D503  
AV-32D303  
AV-32D203

#### OTHERS MODE

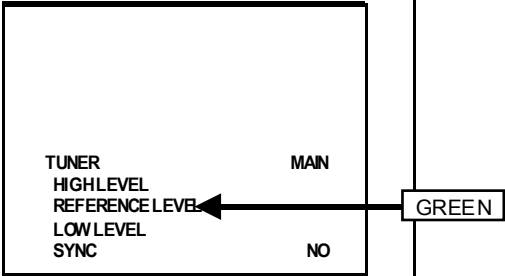
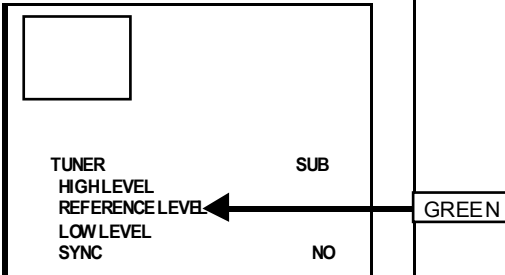
No	Variable range	Initial setting value	No	Variable range	Initial setting value
F01	0~15	37	F15	0~63	0
F02	0~15	90	F16	0~63	10
F03	0~15	45	F17	0~63	20
F04	0~15	93	F18	0~255	2
F05	0~63	7	F19	-128~+127	+8
F06	0~1	0	F20	-128~+127	-4
F07	0~63	2	F21	-128~+127	-10
F08	0~2	0	F22	-128~+127	-16
F09	0~255	5	F23	0~1	0
F10	0~255	5	F24	0~2	0
F11	0~255	16	F25	0~255	255
F12	0~63	32	F26	0~255	40
F13	0~255	3	F27	0~255	15
F14	0~255	5	F28	0~1	1

#### PIP MODE

No	Setting item	Variable range	Initial setting value	No	Setting item	Variable range	Initial setting value
PIP01	BRIGHT	0~15	0	PIP28	MAT	0~1	1
PIP02	PICTURE	0~75	30	PIP29	YCOR	0~1	1
PIP03	TINT	0~63	42	PIP30	XFREQF	0~1	1
PIP04	COLOR	0~15	6	PIP31	WTCHDG	0~1	1
PIP05	R CUTOFF	0~15	0	PIP32	COLON	0~1	0
PIP06	G CUTOFF	0~15	0	PIP33	ACQNEW	0~1	0
PIP07	B CUTOFF	0~15	0	PIP34	DSTDET	0~1	1
PIP08	R DRIVE	0~255	63	PIP35	CRIBEOK	0~1	0
PIP09	G DRIVE	0~255	65	PIP36	FCBEOK	0~1	0
PIP10	B DRIVE	0~255	65	PIP37	NOCRID	0~1	0
PIP11	L POSI	0~255	22	PIP38	NONSED	0~1	0
PIP12	R POSI	0~255	15	PIP39	PIP ADJ	0~15	5
PIP13	UPR POSI	0~127	12	PIP40	BRI EXT	-128~+127	0
PIP14	LWR POSI	0~127	11	PIP41	PCT EXT	-128~+127	0
PIP15	PICT LCK	0~1	1	PIP42	TNT EXT	-128~+127	0
PIP16	SELDEL	0~15	0	PIP43	COR EXT	-128~+127	0
PIP17	AGCFIX	0~1	1	PIP44	R-D EXT	-128~+127	0
PIP18	AGCADST	0~1	0	PIP45	G-D EXT	-128~+127	0
PIP19	AGC	0~15	7	PIP46	B-D EXT	-128~+127	0
PIP20	BLKINVB	0~1	0	PIP47	BRT COMP	-128~+127	0
PIP21	BLKINVR	0~1	0	PIP48	PCT COMP	-128~+127	0
PIP22	VSPDEL	0~31	0	PIP49	TNT COMP	0~63	40
PIP23	VSPISQ	0~1	1	PIP50	COR COMP	0~15	5
PIP24	RGBIN	0~1	0	PIP51	R-D COMP	-128~+127	0
PIP25	FRSEL	0~1	1	PIP52	G-D COMP	-128~+127	0
PIP26	OUTFOR	0~1	0	PIP53	B-D COMP	-128~+127	0
PIP27	UVPOLAR	0~1	0				

## ADJUSTMENTS

### BASIC ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
Check of B1 power supply	DC Voltmeter	1 : TP-91 3 : TP-E( $\nearrow$ ) B1 connector		<ol style="list-style-type: none"> <li>1. Receive the black and white signal. (color off)</li> <li>2. Connect the DC voltmeter to B1 connector 1 pin (TP-91) and TP-E( <math>\nearrow</math> ).</li> <li>3. Confirm that the voltage is <math>DC134V \pm 2V</math>.</li> </ol>
MAIN VCO adjustment	Remote control unit		<b>VCO (MAIN)</b> [SERVICE MENU]  <b>CW TRANSF.</b> [MAIN PWB]	<ul style="list-style-type: none"> <li>Under normal conditions, no adjustment is required. And it must not adjust without signal.</li> </ul> <ol style="list-style-type: none"> <li>1. Receive the NTSC broadcast.</li> <li>2. Select the 10 VCO mode from the SERVICE MENU.</li> <li>3. It checks that turn the CW TRANSF. and the character of "HIGH LEVEL" changes the color.</li> <li>4. Next, it check that turn the CW TRANSF. on the contrary and the color of "LOW LEVEL" changed.</li> <li>5. At this time, it checks that "SYNC" is "YES".</li> <li>6. Turn the CW TRANSF. and it is made for the character of "REFERENCE LEVEL" to become green. Again, it checks that "SYNC" is "YES".</li> </ol>
				
SUB VCO adjustment Only for AV-32D503	Remote control unit		<b>VCO (SUB)</b> [SERVICE MENU]  <b>SUB CW TRANSF.</b> [PIP PWB]	<ul style="list-style-type: none"> <li>Under normal conditions, no adjustment is required. And it must not adjust without signal.</li> </ul> <ol style="list-style-type: none"> <li>1. Receive the NTSC broadcast.</li> <li>2. Push the PIP key on the remote control unit. And display any broadcast program in the PIP screen that difference from MAIN screen.</li> <li>3. Select the 10 VCO mode and switch the SUB mode by pressing the CURSOR <math>\blacktriangleleft</math> / <math>\blacktriangleright</math> key.</li> <li>4. It checks that turn the SUB CW TRANSF. and the character of "HIGH LEVEL" changes the color.</li> <li>5. Next, it check that turn the SUB CW TRANSF. on the contrary and the color of "LOW LEVEL" changed.</li> <li>6. At this time, it checks that "SYNC" is "YES".</li> <li>7. Turn the SUB CW TRANSF. and it is made for the character of "REFERENCE LEVEL" to become green. Again, it checks that "SYNC" is "YES".</li> </ol>
				

Item	Measuring instrument	Test point	Adjustment part	Description						
RF AGC adjustment	Remote control unit		S45 AGC ADJ [V/C(S) mode]	1. Receive the broadcast. 2. Enter to the V/C(S) mode from SERVICE MENU. 3. Select the <b>S45 AGC ADJ</b> item. 4. Press the <b>MUTING</b> key and turn the color to off. 5. With the <b>CURSOR ◀</b> key to get the noise in the screen picture (zero side of setting value). 6. Press the <b>CURSOR ▶</b> key several times and step when noise disappears from the screen. At this time, not to increase the value too much. 7. Change to other channels and make sure that there is no irregularity. 8. Press the <b>MUTING</b> key and get color out.						
				<table><tr><th>Adjustment item</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td>S45 AGC ADJ</td><td>0~127</td><td>63</td></tr></table>	Adjustment item	Variable range	Initial setting value	S45 AGC ADJ	0~127	63
Adjustment item	Variable range	Initial setting value								
S45 AGC ADJ	0~127	63								
FOCUS adjustment	Signal generator		FOCUS VR [In FBT]	1. Receive the crosshatch signal. 2. While looking at the screen, adjust the FOCUS VR to the vertical and horizontal lines will be clear and make fine in a detail. 3. Make sure that the picture is in focus even when the screen gets darkened.						
<div><div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div>										



## DEFLECTION CIRCUIT ADJUSTMENT

The setting (adjustment) using the remote control unit is made on the basis of the initial setting values.  
The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

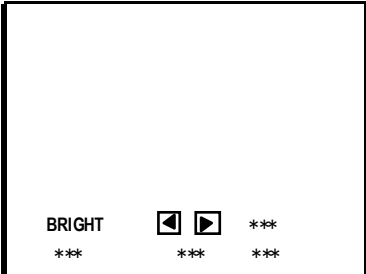
Item	Measuring instrument	Test point	Adjustment part	Description															
V. CENTER V. SIZE adjustment	Signal generator		D05 V PHASE D07 V SIZE [DEF(D) mode]	1. Receive the crosshatch signal. 2. Enter to the DEF(D) mode from SERVICE MENU. 3. Select the <b>D05 V PHASE</b> , and it checks that the value of <b>D05 V PHASE</b> is 0. 4. Adjust the V. CENTER SW to become the signal center agree with the CRT vertical center. 5. Then adjust the <b>D07 V SIZE</b> to the vertical screen size become the values given below table (bottom of screen is to be located within the 85%~95% range).															
	Remote control unit		V. CENTER SW [MAIN PWB]																
<table><tr><th rowspan="2">Adjustment item</th><th colspan="3">Initial setting value</th></tr><tr><th>AV-32D503 /Y AV-32D303 /Y AV-32D203 /Y</th><th>AV-32D503 /R AV-32D303 /R AV-32D203 /R</th><th>AV-32D503 /M AV-32D303 /M AV-32D203 /M</th></tr><tr><td>D05 V PHASE</td><td>0</td><td>0</td><td>0</td></tr><tr><td>D07 V SIZE</td><td>70</td><td>70</td><td>70</td></tr></table>					Adjustment item	Initial setting value			AV-32D503 /Y AV-32D303 /Y AV-32D203 /Y	AV-32D503 /R AV-32D303 /R AV-32D203 /R	AV-32D503 /M AV-32D303 /M AV-32D203 /M	D05 V PHASE	0	0	0	D07 V SIZE	70	70	70
Adjustment item	Initial setting value																		
	AV-32D503 /Y AV-32D303 /Y AV-32D203 /Y	AV-32D503 /R AV-32D303 /R AV-32D203 /R	AV-32D503 /M AV-32D303 /M AV-32D203 /M																
D05 V PHASE	0	0	0																
D07 V SIZE	70	70	70																
<div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>&lt;/</div></div></div></div></div>																			

Item	Measuring instrument	Test point	Adjustment part	Description
H SIZE H. POSITION SIDE PINCUSHION adjustment	Signal generator  Remote control unit		D03 H POSITION D15 H SIZE D23 EW PARA D19 EWCR TOP D21 EWCR BTM [DEF(D) mode]	1. Receive the crosshatch signal. 2. Adjust left-right center with <b>D03 H POSITION</b> to become screen center agree with CRT center (A=A' as shown in figure). 3. Adjust the horizontal size with <b>D15 H SIZE</b> to become the value given below.  4. Adjust the <b>D23 EW PARA</b> to the vertical lines become straight. 5. It check that, horizontal size is not illegal. 6. When the vertical lines of 4 corner does not turn into a straight, adjusts them with <b>D19 EWCR TOP</b> and <b>D21 EWCR BTM</b> to correctly.
<div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>&lt;/</div></div></div></div></div>				

## VIDEO / CHROMA CIRCUIT ADJUSTMENT

The adjustment using the remote control unit is made on the basis of the initial setting values.  
The setting values which adjust the screen to the optimum condition can be different from the initial setting values.  
Do not change the initial setting values not listed in "ADJUSTMENT".

Item	Measuring instrument	Test point	Adjustment item	Description
WHITE BALANCE (Low Light) adjustment	Signal generator		LOW LIGHT BRIGHT (S01) [SERVICE MENU]	<ol style="list-style-type: none"> <li>1. Receive a black and white signal (color off).</li> <li>2. Select the LOW LIGHT MODE from the SERVICE MENU.</li> <li>3. Confirm the initial setting value of BRIGHT.</li> <li>4. Confirm the initial setting value of R CUTOFF, G CUTOFF and B CUTOFF.</li> <li>5. If they are differ, set the S01, S11, S12 and S13 to the correct initial setting value in the 1 V/C(S) mode.</li> <li>6. Display a single horizontal line by pressing the ① key of the remote control unit.</li> <li>7. Turn the screen VR all the way to the left.</li> <li>8. Turn the screen VR gradually to the right from the left until either one of the red, blue or green colors appears faintly.</li> <li>9. Use keys ④~⑨ of the remote control unit and adjust the other 2 colors which except the appeared color to where the single horizontal line appears white.</li> <li>10. Turn the screen VR to where the single horizontal line glows faintly.</li> <li>11. Press the ② key to release the single horizontal line.</li> <li>12. Adjust the BRIGHT level to become the black component shines white slightly.</li> <li>13. Confirm that whether the color ingredient of R, G or B is visible to the black component, which shines white slightly.</li> <li>14. When the color ingredient can be seen, two colors other than a visible color are adjusted, and it is made to look white.</li> <li>15. Return the value of BRIGHT to initial setting value.</li> <li>16. Press the ③ key to exit the WHITE BALANCE MODE.</li> </ol>
	Remote control unit		R CUTOFF(S11) G CUTOFF(S12) B CUTOFF(S13)  SCREEN VR [In HVT]	



**LOW LIGHT adjustment mode**

**Remote Control Unit**

H.LINE ON ↓ ①	H.LINE OFF ↓ ②	EXIT ↓ ③
R CUTOFF ▲ ↓ ④	G CUTOFF ▲ ↓ ⑤	B CUTOFF ▲ ↓ ⑥
R CUTOFF ▼ ↓ ⑦	G CUTOFF ▼ ↓ ⑧	B CUTOFF ▼ ↓ ⑨

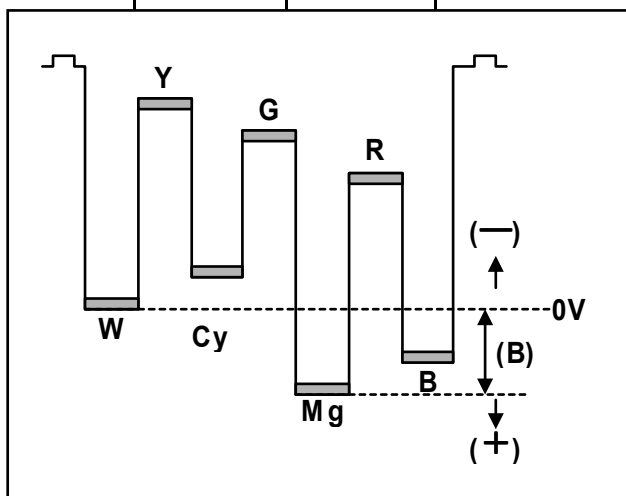
Adjustment item	Variable range	Initial setting value
BRIGHT	0~127	64

CUTOFF ADJUSTMENT	Variable range	Initial setting value
R CUT OFF (S11)	0 ~255	30
G CUT OFF (S12)	0 ~255	30
B CUTOFF (S13)	0 ~255	30

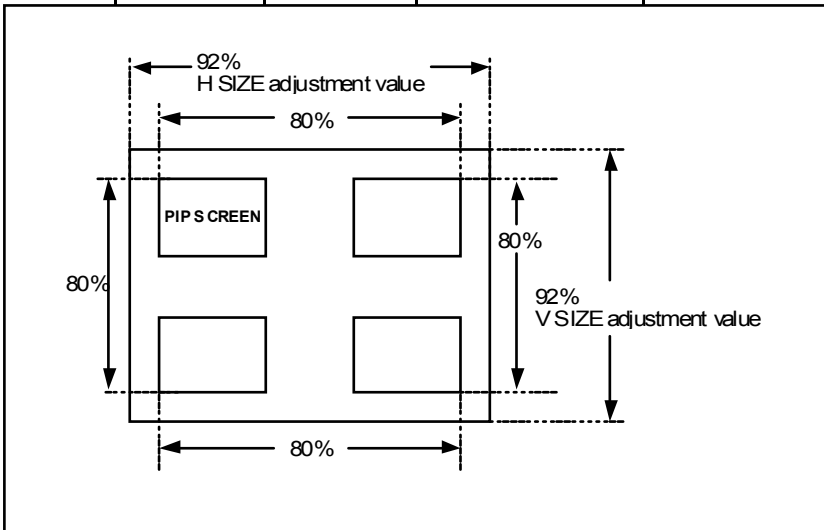
Item	Measuring instrument	Test point	Adjustment item	Description									
WHITE BALANCE (High Light) adjustment	Signal generator		HIGH LIGHT [SERVICE MENU]	<div>1. Receive the NTSC black and white signal (color off).</div> <div>2. Select the HIGH LIGHT mode in the SERVICE MENU.</div> <div>3. Confirm the initial setting value of "G DRIVE" and "B DRIVE".</div> <div>4. If they are differ, set the S14 and S15 to the correct initial setting value in the 1 V/C(S) mode.</div> <div>5. Adjust the screen color to white with the ④, ⑥, ⑦ and ⑨ keys of the remote control unit.</div> <div><div>Remote Control Unit</div><div><div>H.LINE ON ① R DRIVE ▲ ④ R DRIVE ▼ ⑦</div><div>H.LINE OFF ② ⑤ ⑧</div><div>EXIT ③ B DRIVE ▲ ⑥ B DRIVE ▼ ⑨</div></div></div>									
	Remote control unit		R DRIVE (S14) B DRIVE (S15)										
<div><div>***</div><div>***</div><div>HIGH LIGHT adjustment</div></div> <table><tr><th>DRIVE ADJUSTMENT</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td>R DRIVE (S14)</td><td>0 ~ 127</td><td>64</td></tr><tr><td>B DRIVE (S15)</td><td>0 ~ 127</td><td>64</td></tr></table>					DRIVE ADJUSTMENT	Variable range	Initial setting value	R DRIVE (S14)	0 ~ 127	64	B DRIVE (S15)	0 ~ 127	64
DRIVE ADJUSTMENT	Variable range	Initial setting value											
R DRIVE (S14)	0 ~ 127	64											
B DRIVE (S15)	0 ~ 127	64											
SUB BRIGHT adjustment	Remote control unit		S01 BRIGHT	<div>● White balance (low light and high light) adjustment should be done.</div> <div>1. Receive a NTSC broadcast.</div> <div>2. Select the 1 V/C(S) mode from SERVICE MENU.</div> <div>3. Select <b>S01 BRIGHT</b> of the V/C(S) mode in SERVICE MENU.</div> <div>4. Confirm the initial setting value of the <b>S01 BRIGHT</b>.</div> <div>5. If the brightness is not the best with the initial setting value, make fine adjustment of the <b>S01 BRIGHT</b> until you get the optimum brightness.</div> <table><tr><th>BRIGHT ADJUSTMENT</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td>S01 BRIGHT</td><td>0 ~ 127</td><td>64</td></tr></table>	BRIGHT ADJUSTMENT	Variable range	Initial setting value	S01 BRIGHT	0 ~ 127	64			
BRIGHT ADJUSTMENT	Variable range	Initial setting value											
S01 BRIGHT	0 ~ 127	64											
SUB CONTRAST adjustment	Remote control unit		S02 PICTURE	<div>● Bright adjustment should be done.</div> <div>1. Receive a NTSC broadcast.</div> <div>2. Select the 1 V/C(S) mode from SERVICE MENU.</div> <div>3. Select <b>S02 PICTURE</b> of the V/C(S) mode in SERVICE MENU.</div> <div>4. Confirm the initial setting value of the <b>S02 PICTURE</b>.</div> <div>5. If the contrast is not the best with the initial setting value, make fine adjustment of the <b>S02 PICTURE</b> until you get the optimum contrast.</div> <table><tr><th>PICTURE ADJUSTMENT</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td>S02 PICTURE</td><td>0 ~ 127</td><td>55</td></tr></table>	PICTURE ADJUSTMENT	Variable range	Initial setting value	S02 PICTURE	0 ~ 127	55			
PICTURE ADJUSTMENT	Variable range	Initial setting value											
S02 PICTURE	0 ~ 127	55											

Item	Measuring instrument	Test point	Adjustment part	Description								
SUB COLOR adjustment	Remote control unit		S03 COLOR [V/C(S) mode]	<p>[ Method of adjustment without measuring instrument ]</p> <p>1. Receive the broadcast. 2. Select the 1 V/C(S) mode from SERVICE MENU. 3. Select <b>S03 COLOR</b> of the V/C(S) mode. 4. Confirm the initial setting value of the <b>S03 COLOR</b>. 5. If the color is not the best with the Initial setting value, make fine adjustment of the <b>S03 COLOR</b> until you get the optimum color.</p> <table><tr><th>Adjustment item</th><th>Initial setting value</th></tr><tr><td>S03 COLOR</td><td>55</td></tr></table>	Adjustment item	Initial setting value	S03 COLOR	55				
	Adjustment item	Initial setting value										
S03 COLOR	55											
	Signal generator  Oscilloscope  Remote control unit	TP-B TP-E(↗) [CRT SOCKET PWB]	S03 COLOR [V/C(S) mode]	<p>[ Method of adjustment using measuring instrument ]</p> <p>1. Input the full color bar signal includes the 75% white. 2. Select the 9 RF AFC mode from SERVICE MENU. 3. Turn the AFC item to off, and exit to the SERVICE MAIN MENU. 4. Select the 1 V/C(S) mode from SERVICE MENU. 5. Select <b>S03 COLOR</b> of the V/C(S) mode. 6. Confirm the initial setting value of the <b>S03 COLOR</b> given above. 7. Connect the oscilloscope between TP-B and TP-E. 8. Adjust <b>S03 COLOR</b> and bring the value of <b>(A)</b> in the illustration to the voltage shown in the table below (voltage difference between white and blue). 9. Exit to the SERVICE MAIN MENU. 10. Select the 9 RF AFC mode. 11. Turn the AFC item to on.</p> <table><tr><th>MODEL NAME</th><th>Voltage difference [V]</th></tr><tr><td>AV-32D503 /Y AV-32D303 /Y AV-32D203 /Y</td><td>+20V</td></tr><tr><td>AV-32D503 /R AV-32D303 /R AV-32D203 /R</td><td>+18V</td></tr><tr><td>AV-32D503 /M AV-32D303 /M AV-32D203 /M</td><td>+20V</td></tr></table>	MODEL NAME	Voltage difference [V]	AV-32D503 /Y AV-32D303 /Y AV-32D203 /Y	+20V	AV-32D503 /R AV-32D303 /R AV-32D203 /R	+18V	AV-32D503 /M AV-32D303 /M AV-32D203 /M	+20V
MODEL NAME	Voltage difference [V]											
AV-32D503 /Y AV-32D303 /Y AV-32D203 /Y	+20V											
AV-32D503 /R AV-32D303 /R AV-32D203 /R	+18V											
AV-32D503 /M AV-32D303 /M AV-32D203 /M	+20V											

Item	Measuring instrument	Test point	Adjustment part	Description								
SUB TINT adjustment	Remote control unit		S04 TINT [V/C(S) mode]	<p>[ Method of adjustment without measuring instrument ]</p> <ol style="list-style-type: none"><li>1. Receive the broadcast.</li><li>2. Select the 1 V/C(S) mode from SERVICE MENU.</li><li>3. Select <b>S04 TINT</b> of the V/C(S) mode.</li><li>4. Confirm the initial setting value of the <b>S04 TINT</b>.</li><li>5. If the tint is not the best with the Initial setting value, make fine adjustment of the <b>S04 TINT</b> until you get the optimum color.</li></ol> <table><tr><th>Adjustment item</th><th>Initial setting value</th></tr><tr><td>S04 TINT</td><td>64</td></tr></table>	Adjustment item	Initial setting value	S04 TINT	64				
	Adjustment item	Initial setting value										
S04 TINT	64											
	Signal generator  Oscilloscope  Remote control unit	TP-B TP-E(♣) [CRT SOCKET PWB]	S04 TINT [V/C(S) mode]	<p>[ Method of adjustment using measuring instrument ]</p> <ol style="list-style-type: none"><li>1. Input the full color bar signal includes the 75% white.</li><li>2. Select the 9 RF AFC mode from SERVICE MENU.</li><li>3. Turn the AFC item to off, and exit to the SERVICE MAIN MENU.</li><li>4. Select the 1 V/C(S) mode from SERVICE MENU.</li><li>5. Select <b>S04 TINT</b> of the V/C(S) mode.</li><li>6. Confirm the initial setting value of the <b>S04 TINT</b> given above.</li><li>7. Connect the oscilloscope between TP-B and TP-E.</li><li>8. Adjust <b>S04 TINT</b> and bring the value of <b>(B)</b> in the illustration to the voltage shown in the table below ( voltage difference between white and magenta).</li><li>9. Exit to the SERVICE MAIN MENU.</li><li>10. Select the 9 RF AFC mode.</li><li>11. Turn the AFC item to on.</li></ol> <table><tr><th>MODEL NAME</th><th>Voltage difference [V]</th></tr><tr><td>AV-32D503 /Y AV-32D303 /Y AV-32D203 /Y</td><td>+12V</td></tr><tr><td>AV-32D503 /R AV-32D303 /R AV-32D203 /R</td><td>+2V</td></tr><tr><td>AV-32D503 /M AV-32D303 /M AV-32D203 /M</td><td>+4V</td></tr></table>	MODEL NAME	Voltage difference [V]	AV-32D503 /Y AV-32D303 /Y AV-32D203 /Y	+12V	AV-32D503 /R AV-32D303 /R AV-32D203 /R	+2V	AV-32D503 /M AV-32D303 /M AV-32D203 /M	+4V
MODEL NAME	Voltage difference [V]											
AV-32D503 /Y AV-32D303 /Y AV-32D203 /Y	+12V											
AV-32D503 /R AV-32D303 /R AV-32D203 /R	+2V											
AV-32D503 /M AV-32D303 /M AV-32D203 /M	+4V											



# PIP CIRCUIT ADJUSTMENT [Only for AV-32D503]

Item	Measuring instrument	Test point	Adjustment part	Description																				
PIP WHITE BALANCE adjustment (HIGH LIGHT)	Signal generator  Remote control unit		PIP08 R DRIVE PIP10 B DRIVE [PIP(PIP) mode]	<div>1. Receive the black and white signal (color off).</div> <div>2. Select the <b>5 PIP</b> mode from SERVICE MENU.</div> <div>3. Select the <b>PIP08 R DRIVE</b>, <b>PIP10 B DRIVE</b> of the PIP mode.</div> <div>4. Confirm the initial setting values of <b>PIP08</b> and <b>PIP10</b>.</div> <div>5. Adjust the <b>PIP08 R DRIVE</b>, <b>PIP10 B DRIVE</b> until the screen becomes white.</div> <div><table><tr><th>Adjustment item</th><th>Initial setting value</th></tr><tr><td>PIP08 R DRIVE</td><td>63</td></tr><tr><td>PIP10 B DRIVE</td><td>65</td></tr></table></div>	Adjustment item	Initial setting value	PIP08 R DRIVE	63	PIP10 B DRIVE	65														
Adjustment item	Initial setting value																							
PIP08 R DRIVE	63																							
PIP10 B DRIVE	65																							
PIP DISPLAY POSITION adjustment	Signal generator  Remote control unit		PIP11 L POSI PIP12 R POSI PIP13 UPR POSI PIP14 LWR POSI [PIP(PIP) mode]	<div>1. Receive the black and white signal (color off).</div> <div>2. Select the <b>5 PIP</b> mode from SERVICE MENU.</div> <div>3. Select the <b>PIP11 L POSI</b> of the PIP mode.</div> <div>4. Confirm the initial setting value of the <b>PIP11 L POSI~PIP14 LWR POSI</b>.</div> <div>5. Adjust the <b>PIP11 ~ PIP14</b> to become the each PIP screen outside edges positioned about the left mentioned values from screen edge.</div> <div><table><tr><th>Adjustment item</th><th>Initial setting value</th></tr><tr><td>PIP11 L POSI</td><td>22</td></tr><tr><td>PIP12 R POSI</td><td>15</td></tr><tr><td>PIP13 UPR POSI</td><td>12</td></tr><tr><td>PIP14 LWR POSI</td><td>11</td></tr></table><div><table><tr><th>Adjustment position</th><th>Adjustment value [Screen size]</th></tr><tr><td>UPPER WIDTH</td><td>80 %</td></tr><tr><td>LOWER WIDTH</td><td>80 %</td></tr><tr><td>LEFT WIDTH H</td><td>80 %</td></tr><tr><td>RIGHT WIDTH</td><td>80 %</td></tr></table><div></div></div></div>	Adjustment item	Initial setting value	PIP11 L POSI	22	PIP12 R POSI	15	PIP13 UPR POSI	12	PIP14 LWR POSI	11	Adjustment position	Adjustment value [Screen size]	UPPER WIDTH	80 %	LOWER WIDTH	80 %	LEFT WIDTH H	80 %	RIGHT WIDTH	80 %
Adjustment item	Initial setting value																							
PIP11 L POSI	22																							
PIP12 R POSI	15																							
PIP13 UPR POSI	12																							
PIP14 LWR POSI	11																							
Adjustment position	Adjustment value [Screen size]																							
UPPER WIDTH	80 %																							
LOWER WIDTH	80 %																							
LEFT WIDTH H	80 %																							
RIGHT WIDTH	80 %																							

MTS CIRCUIT ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description						
MTS INPUT LEVEL check	Remote control unit		A01 IN LEVEL [SOUND(A) mode]	1. Select the <b>A01 IN LEVEL</b> of the SOUND mode.						
				2. Verify that the <b>A01 IN LEVEL</b> is set at its initial setting value.						
				<table><tr><th>Adjustment item</th><th>Initial setting value</th></tr><tr><td>A01 IN LEVEL</td><td>10</td></tr></table>	Adjustment item	Initial setting value	A01 IN LEVEL	10		
Adjustment item	Initial setting value									
A01 IN LEVEL	10									
MTS SEPARATION adjustment	TV audio multiplex signal generator	R OUT L OUT [AUDIO OUT]	A02 LOW SEP A03 HI SEP	1. Input the stereo L signal (300Hz) from the TV audio multiplex signal generator to the antenna terminal.						
	Oscill oscope			2. Connect an oscilloscope to R OUT pin of the AUDIO OUT, and display one cycle portion of the 300Hz signal.						
	Remote control unit			3. Select the <b>A02 LOW SEP</b> of the SOUND MODE.						
				4. Confirm the initial setting value of the <b>A02 LOW SEP</b> .						
				5. Adjust the <b>A02 LOW SEP</b> so that the stroke element of the 300Hz signal will become minimum.						
				6. Change the connection of the oscilloscope to L OUT pin of the AUDIO OUT, and enlarge the voltage axis.						
				7. Change the signal to 3kHz, and similarly adjust the <b>A03 HI SEP</b> .						
				<table><tr><th>Adjustment item</th><th>Initial setting value</th></tr><tr><td>A02 LOW SEP</td><td>32</td></tr><tr><td>A03 HIGH SEP</td><td>32</td></tr></table>	Adjustment item	Initial setting value	A02 LOW SEP	32	A03 HIGH SEP	32
Adjustment item	Initial setting value									
A02 LOW SEP	32									
A03 HIGH SEP	32									

L-Channel signal waveform

R-Channel crosstalk portion



## HOW TO CHECK THE HIGH VOLTAGE HOLD DOWN CIRCUIT

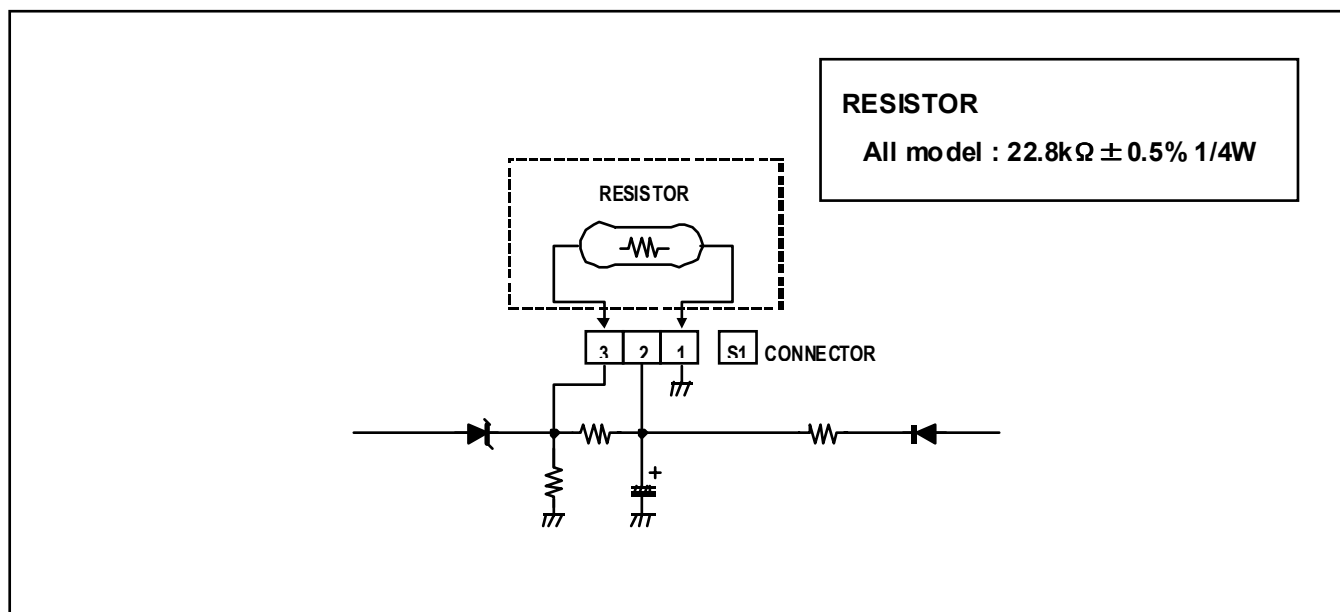
### 1. HIGH VOLTAGE HOLD DOWN CIRCUIT

After repairing the high voltage hold down circuit.

This circuit shall be checked to operate correctly.

### 2. CHECKING OF THE HIGH VOLTAGE HOLD DOWN CIRCUIT

- (1) Turn the power switch on.
- (2) As shown in figure, set the resistor (between 【S1】 connector 【2】 and 【3】 ).
- (3) Make sure that the screen picture disappears.
- (4) Temporarily unplug the power plug.
- (5) Remove the resistor (between 【S1】 connector 【2】 and 【3】 ).
- (6) Again plug the power plug, make sure that the normal picture is displayed on the screen.



## REPLACEMENT OF CHIP COMPONENT

### ■ CAUTIONS

1. Avoid heating for more than 3 seconds.
2. Do not rub the electrodes and the resist parts of the pattern.
3. When removing a chip part, melt the solder adequately.
4. Do not reuse a chip part after removing it.

### ■ SOLDERING IRON

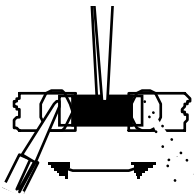
1. Use a high insulation soldering iron with a thin pointed end of it.
2. A 30w soldering iron is recommended for easily removing parts.

### ■ REPLACEMENT STEPS

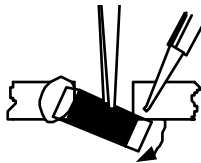
#### 1. How to remove Chip parts

##### ◆ Resistors, capacitors, etc

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



- (2) Shift with tweezers and remove the chip part.

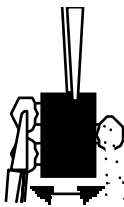


##### ◆ Transistors, diodes, variable resistors, etc

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

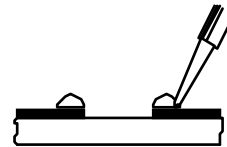


*Note : After removing the part, remove remaining solder from the pattern.*

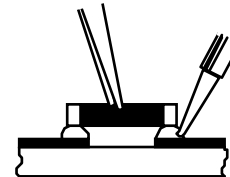
#### 2. How to install Chip parts

##### ◆ Resistors, capacitors, etc

- (1) Apply solder to the pattern as indicated in the figure.

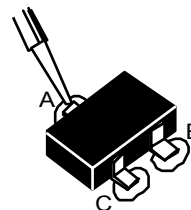


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

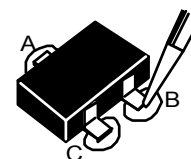


##### ◆ Transistors, diodes, variable resistors, etc

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead **A** as indicated in the figure.



- (4) Then solder leads **B** and **C**.



# PARTS LIST

## CAUTION

- The parts identified by the  $\Delta$  symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety .
- The parts not indicated in this Parts List and those which are filled with lines — in the Parts No. columns will not be supplied .
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied .

## ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
$\pm 1\%$	$\pm 2\%$	$\pm 5\%$	$\pm 10\%$	$\pm 20\%$	$\pm 30\%$	+30% -10%	+50% -10%	+80% -20%	+100% 0%

AV-32D503  
AV-32D303  
AV-32D203

## [ AV-32D503 ]

### CONTENTS

■ USING CRT, P.W. BOARD & REMOTE CONTROL UNIT .....	36
■ EXPLODED VIEW PARTS LIST .....	38
■ EXPLODED VIEW .....	39
■ PRINTED WIRING BOARD PARTS LIST .....	

## [ AV-32D503/M ]

● MAIN PW BOARD ASS'Y .....	40
● CRT SOCKET PW BOARD ASS'Y .....	43
● PIP PW BOARD ASS'Y .....	44
● AV SELECTOR PW BOARD ASS'Y .....	45
● FRONT AV IN PW BOARD ASS'Y .....	46
● FRONT CONTROL PW BOARD ASS'Y .....	46

## [ AV-32D503/R ]

● MAIN PW BOARD ASS'Y .....	47
● CRT SOCKET PW BOARD ASS'Y .....	50
● PIP PW BOARD ASS'Y .....	51
● AV SELECTOR PW BOARD ASS'Y .....	51
● FRONT AV IN PW BOARD ASS'Y .....	51
● FRONT CONTROL PW BOARD ASS'Y .....	51

## [ AV-32D503/Y ]

● MAIN PW BOARD ASS'Y .....	52
● CRT SOCKET PW BOARD ASS'Y .....	55
● PIP PW BOARD ASS'Y .....	56
● AV SELECTOR PW BOARD ASS'Y .....	56
● FRONT AV IN PW BOARD ASS'Y .....	56
● FRONT CONTROL PW BOARD ASS'Y .....	56

■ PACKING .....	57
■ PACKING PARTS LIST .....	57
■ REMOTE CONTROL UNIT PARTS LIST .....	57

### USING CRT, P.W. BOARD & REMOTE CONTROL UNIT

<div>Model</div> <div>P.W.B ASS'Y</div>	AV-32D503/M	AV-32D503/R	AV-32D503/Y
CRT (ITC TUBE)	A80JUA061X06	A80AEJ15X01	A80AKB50X04
MAIN PWB	SGE-1021A-M2	SGE-1022A-M2	SGE-1003A-M2
CRT SOCKET PWB	SGE-3006A-M2	SGE-3007A-M2	SGE-3004A-M2
PIP PWB	SGE-4001A-M2	←	←
AV SELECTOR PWB	SGE-5001A-M2	←	←
FRONT AV IN PWB	SGE-6001A-M2	←	←
FRONT CONTROL PWB	SGE-7001A-M2	←	←
REMOTE CONTROL UNIT	RM-C251-1H	←	←

## [ AV-32D303 / AV-32D203 ]

### CONTENTS

■ USING CRT, P.W. BOARD & REMOTE CONTROL UNIT .....	37
■ EXPLODED VIEW PARTS LIST .....	58
■ EXPLODED VIEW .....	59
■ PRINTED WIRING BOARD PARTS LIST	

## [ AV-32D303/M , AV-32D203/M ]

● MAIN PW BOARD ASS'Y .....	60
● CRT SOCKET PW BOARD ASS'Y .....	63
● AV SELECTOR PW BOARD ASS'Y .....	63
● FRONT AV IN PW BOARD ASS'Y .....	63
● FRONT CONTROL PW BOARD ASS'Y .....	63

## [ AV-32D303/R , AV-32D203/R ]

● MAIN PW BOARD ASS'Y .....	64
● CRT SOCKET PW BOARD ASS'Y .....	67
● AV SELECTOR PW BOARD ASS'Y .....	67
● FRONT AV IN PW BOARD ASS'Y .....	67
● FRONT CONTROL PW BOARD ASS'Y .....	67

## [ AV-32D303/Y , AV-32D203/Y ]

● MAIN PW BOARD ASS'Y .....	68
● CRT SOCKET PW BOARD ASS'Y .....	71
● AV SELECTOR PW BOARD ASS'Y .....	71
● FRONT AV IN PW BOARD ASS'Y .....	71
● FRONT CONTROL PW BOARD ASS'Y .....	71

■ PACKING .....	72
■ PACKING PARTS LIST .....	72
■ REMOTE CONTROL UNIT PARTS LIST .....	72

### USING CRT, P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y \ Model	AV-32D303/M AV-32D203/M	AV-32D303/R AV-32D203/R	AV-32D303/Y AV-32D203/Y
CRT (ITC TUBE)	A80JUA061X06	A80AEJ15X01	A80AKB50X04
MAIN PWB	SGE-1027A-M2	SGE-1028A-M2	SGE-1006A-M2
CRT SOCKET PWB	SGE-3006A-M2	SGE-3007A-M2	SGE-3004A-M2
PIP PWB	x	x	x
AV SELECTOR PWB	SGE-5001A-M2	←	←
FRONT AV IN PWB	SGE-6001A-M2	←	←
FRONT CONTROL PWB	SGE-7001A-M2	←	←
REMOTE CONTROL UNIT	RM-C252-1H	←	←

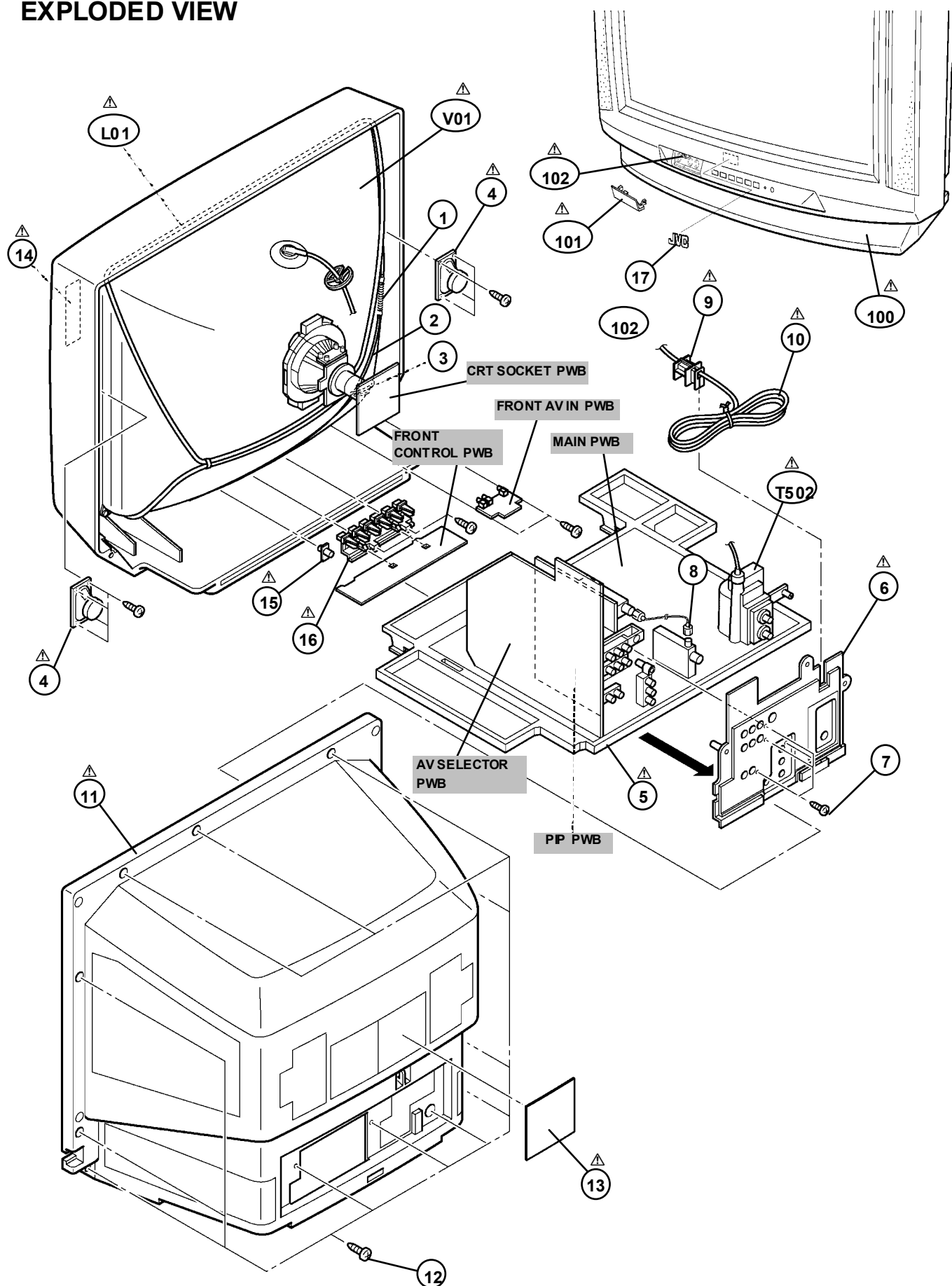
## [ AV-32D503 ]

## EXPLODED VIEW PARTS LIST

[ AV-32D503/M, AV-32D503/R, AV-32D503/Y ] : SILVER

△ Ref.No.	Part No.	Part Name	Description
△ V01	A80JUA061X06	ITC	[ AV-32D503/M ] Inc.DY.PC MAGNET,WEDGE
△ V01	A80AEJ15X01	ITC	[ AV-32D503/R ] Inc.DY.PC MAGNET,WEDGE
△ V01	A80AKB50X04	ITC	[ AV-32D503/Y ] Inc.DY.PC MAGNET,WEDGE
△ L01	CELD066-002JA	DEG COIL	
△ T502	QQH0121-001	FB TRANSF	
1	A48457-1	SPRING	
2	WJY0016-002A	E-BRAIDED ASSY	
3	WJY0013-004A	E-BRAIDED ASSY(SUB)	
△ 4	CEBSS12D-04KJ2	SPEAKER	or QAS0101-001(×2) SP01,SP02
△ 5	LC10883-001C-A	CHASSIS BASE	
△ 6	LC20899-004A-A	TERMINAL BOARD	
7	QYSBSB3010Z	TAP SCREW	(×4)
8	WJX0014-002A	E-COAXIAL ASSY	
△ 9	LC20106-001D-A	POWER CORD CLAMP	
△ 10	QMPD390-200-JS	POWER CORD	or QMPD200-200-JC Within MAIN PWB(CNOPW)
△ 11	LC10308-003C-A	REAR COVER	
12	QYSBSFG4016Z	TAP SCREW	(×12)
△ 13	GQ30032-001A-A	RATING LABEL	
△ 14	GQ30034-001B-A	WARNING LABEL	
△ 15	LC30191-002A-A	REMOCON LENS	
△ 16	LC20217-005B-A	CONTROL KNOB	
17	CM48006-007-C	JVC MARK	
△ 100	LC10641-005B-A	FRONT CABI.ASSY	Inc.No.101~102
△ 101	LC20409-005B-A	DOOR	
△ 102	PU60109	CATCHER	

# EXPLODED VIEW



## [ AV-32D503M ]

## PRINTED WIRING BOARD PARTS LIST

## MAIN P.W. BOARD ASS'Y (SGE-1021A-M2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R002	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R003	NRSA63J-101X	MG R	100Ω 1/16W J
R004	NRSA63J-101X	MG R	100Ω 1/16W J
R005	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R008	NRSA63J-820X	MG R	82Ω 1/16W J
R009	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R101	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R102	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R103	QRE121J-101Y	C R	100Ω 1/2W J
R104	NRSA63J-180X	MG R	18Ω 1/16W J
R105	NRSA63J-270X	MG R	27Ω 1/16W J
R111	NRSA63J-394X	MG R	390kΩ 1/16W J
R112	NRSA63J-334X	MG R	330kΩ 1/16W J
R113	NRSA63J-101X	MG R	100Ω 1/16W J
R115	NRSA63J-101X	MG R	100Ω 1/16W J
R116	NRSA63J-680X	MG R	68Ω 1/16W J
R117	NRSA63J-273X	MG R	27kΩ 1/16W J
R118	NRSA63J-223X	MG R	22kΩ 1/16W J
R131	NRSA63J-102X	MG R	1kΩ 1/16W J
R132	NRSA63J-331X	MG R	330Ω 1/16W J
R133	NRSA63J-821X	MG R	820Ω 1/16W J
R134	NRSA63J-561X	MG R	560Ω 1/16W J
R135	NRSA63J-102X	MG R	1kΩ 1/16W J
R161	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R162	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R163	NRSA63J-223X	MG R	22kΩ 1/16W J
R164	NRSA63J-102X	MG R	1kΩ 1/16W J
R165	NRSA63J-223X	MG R	22kΩ 1/16W J
R166	NRSA63J-103X	MG R	10kΩ 1/16W J
R167	NRSA63J-102X	MG R	1kΩ 1/16W J
R168	NRSA63J-101X	MG R	100Ω 1/16W J
R169	NRSA63J-561X	MG R	560Ω 1/16W J
R171	NRSA63J-103X	MG R	10kΩ 1/16W J
R201	NRSA63J-223X	MG R	22kΩ 1/16W J
R212	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R215	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R216	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R217	NRSA63J-102X	MG R	1kΩ 1/16W J
R222	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R227	NRSA63J-104X	MG R	100kΩ 1/16W J
R231	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R237	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R238	NRSA63J-473X	MG R	47kΩ 1/16W J
R241	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R243	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R281	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R282	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R283	NRSA63J-681X	MG R	680Ω 1/16W J
R286	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R287	NRSA63J-101X	MG R	100Ω 1/16W J
R288	NRSA63J-471X	MG R	470Ω 1/16W J
R289	NRSA63J-154X	MG R	150kΩ 1/16W J
R290	NRSA63J-561X	MG R	560Ω 1/16W J
R292	NRSA63J-124X	MG R	120kΩ 1/16W J
R293	NRSA63J-224X	MG R	220kΩ 1/16W J
R301	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R302	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R303	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R304	NRSA63J-101X	MG R	100Ω 1/16W J
R305	NRSA63J-101X	MG R	100Ω 1/16W J
R306	NRSA63J-101X	MG R	100Ω 1/16W J
R354	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R355	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R356	NRSA63J-123X	MG R	12kΩ 1/16W J
R359	NRSA63J-103X	MG R	10kΩ 1/16W J
R360	NCB31HK-103X	C CAP.	0.01μF 50V K
R421	NRSA63J-822X	MG R	8.2kΩ 1/16W J
R423	NRSA63J-393X	MG R	39kΩ 1/16W J
R424	NRSA63J-393X	MG R	39kΩ 1/16W J
R426	NRSA63J-183X	MG R	18kΩ 1/16W J
R427	QRT029J-1R5	MF R	1.5Ω 2W J

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R432	NRSA63J-101X	MG R	100Ω 1/16W J
R433	NRSA63J-681X	MG R	680Ω 1/16W J
R434	QRL029J-181	OM R	180Ω 2W J
R435	QRE121J-102Y	C R	1kΩ 1/2W J
R441	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R447	NRSA63J-104X	MG R	100kΩ 1/16W J
R448	NRSA63J-473X	MG R	47kΩ 1/16W J
R449	NRSA63J-103X	MG R	10kΩ 1/16W J
R501	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R502	NRSA63J-271X	MG R	27Ω 1/16W J
R503	QRE121J-103Y	C R	10kΩ 1/2W J
R504	QRL029J-102	OM R	1kΩ 3W J
R505	QRL029J-102	OM R	1kΩ 3W J
R511	QRE121J-220Y	C R	22Ω 1/2W J
R512	QRE121J-681Y	C R	680Ω 1/2W J
R523	QRJ146J-333X	C R	33kΩ 1/4W J
R526	QRE121J-272Y	C R	2.7kΩ 1/2W J
R527	QRE121J-154Y	C R	150kΩ 1/2W J
R528	QRE121J-154Y	C R	150kΩ 1/2W J
R529	NRSA63J-331X	MG R	330Ω 1/16W J
R531	QRJ146J-391X	C R	390Ω 1/4W J
R532	NRSA63J-273X	MG R	27kΩ 1/16W J
R533	NRSA63J-123X	MG R	12kΩ 1/16W J
R534	NRSA63J-123X	MG R	12kΩ 1/16W J
△ R535	NRVA02D-222X	MF R	2.2kΩ 1/10W D
△ R537	NRVA02D-752X	MF R	7.5kΩ 1/10W D
R538	NRSA63J-333X	MG R	33kΩ 1/16W J
R543	QRE121J-122Y	C R	1.2kΩ 1/2W J
R544	QRE121J-392Y	C R	3.9kΩ 1/2W J
R545	QRE121J-822Y	C R	8.2kΩ 1/2W J
R546	NRSA63J-331X	MG R	330Ω 1/16W J
R547	NRSA63J-104X	MG R	100kΩ 1/16W J
R548	QRE121J-152Y	C R	1.5kΩ 1/2W J
R553	QRL029J-180	OM R	180Ω 3W J
△ R554	QRK126J-150X	C R	15Ω 1/2W J
R555	QRX029J-3R3	MF R	3.3Ω 2W J
R601	NRSA63J-750X	MG R	75Ω 1/16W J
R602	NRSA63J-750X	MG R	75Ω 1/16W J
R603	NRSA63J-750X	MG R	75Ω 1/16W J
R614	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R615	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R621	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R622	NRSA63J-681X	MG R	680Ω 1/16W J
R623	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R624	NRSA63J-681X	MG R	680Ω 1/16W J
R626	NRSA63J-223X	MG R	22kΩ 1/16W J
R627	NRSA63J-223X	MG R	22kΩ 1/16W J
R631	NRSA63J-333X	MG R	33kΩ 1/16W J
R632	NRSA63J-223X	MG R	22kΩ 1/16W J
R638	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R639	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R651	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R652	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R653	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R655	NRSA63J-153X	MG R	15kΩ 1/16W J
R700	NRSA63J-102X	MG R	1kΩ 1/16W J
R701	NRSA63J-103X	MG R	10kΩ 1/16W J
R702	NRSA63J-102X	MG R	1kΩ 1/16W J
R704	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R705	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R706	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R707	NRSA63J-103X	MG R	10kΩ 1/16W J
R708	NRSA63J-101X	MG R	100Ω 1/16W J
R709	NRSA63J-101X	MG R	100Ω 1/16W J
R714	NRSA63J-823X	MG R	82kΩ 1/16W J
R715	NRSA63J-103X	MG R	10kΩ 1/16W J
R718	NRSA63J-223X	MG R	22kΩ 1/16W J
R721	NRSA63J-102X	MG R	1kΩ 1/16W J
R728	NRSA63J-102X	MG R	1kΩ 1/16W J
R729	NRSA63J-223X	MG R	22kΩ 1/16W J
R731	NRSA63J-101X	MG R	100Ω 1/16W J



## [ AV-32D503/M ]

△ Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>			
R732	NRS463J-101X	MG R	100Ω 1/16W J
R733	NRS463J-472X	MG R	4.7kΩ 1/16W J
R734	NRS463J-472X	MG R	4.7kΩ 1/16W J
R737	NRS463J-472X	MG R	4.7kΩ 1/16W J
R739	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R740	NRS463J-103X	MG R	10kΩ 1/16W J
R754	NRS463J-472X	MG R	4.7kΩ 1/16W J
R755	NRS463J-153X	MG R	15kΩ 1/16W J
R756	NRS463J-103X	MG R	10kΩ 1/16W J
R764	NRS463J-221X	MG R	220Ω 1/16W J
R765	NRS463J-221X	MG R	220Ω 1/16W J
R766	NRS463J-221X	MG R	220Ω 1/16W J
R767	NRS463J-221X	MG R	220Ω 1/16W J
R769	NRS463J-682X	MG R	6.8kΩ 1/16W J
R772	NRS463J-103X	MG R	10kΩ 1/16W J
R775	NRS463J-473X	MG R	47kΩ 1/16W J
R776	NRS463J-103X	MG R	10kΩ 1/16W J
R811	NRS463J-473X	MG R	47kΩ 1/16W J
R812	NRS463J-102X	MG R	1kΩ 1/16W J
R816	NRS463J-124X	MG R	120kΩ 1/16W J
R821	NRS463J-184X	MG R	180kΩ 1/16W J
R822	NRS463J-124X	MG R	120kΩ 1/16W J
R827	NRS463J-102X	MG R	1kΩ 1/16W J
△ R855	QRG09J-100	OM R	10Ω 3W J
△ R857	QRL09J-330	OM R	33Ω 2W J
△ R858	QRL09J-390	OM R	39Ω 2W J
△ R901	QR074K-R47	UNF R	0.47Ω 7W K
△ R909	QRG01GJ-470	OM R	47Ω 1W J
R911	QRE121J-223Y	C R	22kΩ 1/2W J
R912	QRT09J-R22	MF R	0.22Ω 2W J
R913	QRT09J-R22	MF R	0.22Ω 2W J
R914	QRK126J-681X	C R	680Ω 1/2W J
R915	QRK129J-68R	C R	6.8Ω 1/2W J
R917	QRK126J-332X	C R	3.3kΩ 1/2W J
R918	QRE121J-222Y	C R	2.2kΩ 1/2W J
R919	QRE121J-684Y	C R	680kΩ 1/2W J
R924	QRE121J-222Y	C R	2.2kΩ 1/2W J
R930	QRE121J-223Y	C R	22kΩ 1/2W J
R939	QRT09J-2R2	MF R	2.2Ω 3W J
R940	QRE121J-181Y	C R	180Ω 1/2W J
R941	QRL09J-183	OM R	18kΩ 2W J
R950	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R951	NRS463J-473X	MG R	47kΩ 1/16W J
R952	NRS463J-102X	MG R	1kΩ 1/16W J
R953	QRE121J-820Y	C R	82Ω 1/2W J
R973	QRE121J-272Y	C R	2.7kΩ 1/2W J
R975	QRE121J-223Y	C R	22kΩ 1/2W J
R977	QRE121J-473Y	C R	47kΩ 1/2W J
R978	NRS463J-333X	MG R	33kΩ 1/16W J
R979	QRT09J-1R2	MF R	1.2Ω 2W J
R980	QRT09J-1R2	MF R	1.2Ω 2W J
△ R998	QRZ9041-275	C R	2.7MΩ 1/2W K
R999	QRE121J-121Y	C R	120Ω 1/2W J

**CAPACITOR**

C001	QETNLHM-475Z	E CAP.	4.7μF 50V M
C003	QETNLHM-106Z	E CAP.	10μF 50V M
C004	QETNLHM-108Z	E CAP.	1000μF 16V M
C006	QETNLEM-476Z	E CAP.	47μF 25V M
C101	NCB31HK-103X	C CAP.	0.01μF 50V K
C102	NCB31HK-103X	C CAP.	0.01μF 50V K
C104	NCB31HK-103X	C CAP.	0.01μF 50V K
C105	NCB31HK-103X	C CAP.	0.01μF 50V K
C106	QETNLEM-476Z	E CAP.	47μF 25V M
C107	NCB31HK-103X	C CAP.	0.01μF 50V K
C113	NCB31HK-103X	C CAP.	0.01μF 50V K
C114	NCB31HK-103X	C CAP.	0.01μF 50V K
C116	QFVFLHJ-224Z	MF CAP.	0.22μF 50V J
C117	QETNLEM-476Z	E CAP.	47μF 25V M
C118	NCB31HK-103X	C CAP.	0.01μF 50V K
C119	NDC31HJ-681X	C CAP.	680pF 50V J
C120	QETNLHM-474Z	E CAP.	0.47μF 50V M
C124	NCB31HK-103X	C CAP.	0.01μF 50V K
C131	NCB31HK-103X	C CAP.	0.01μF 50V K

△ Symbol No.	Part No.	Part Name	Description
<b>CAPACITOR</b>			
C161	QETNLHM-106Z	E CAP.	10μF 50V M
C163	NDC31HJ-470X	C CAP.	47pF 50V J
C164	NDC31HJ-470X	C CAP.	47pF 50V J
C165	NCB31HK-103X	C CAP.	0.01μF 50V K
C166	NCB31HK-103X	C CAP.	0.01μF 50V K
C202	QETNLHM-105Z	E CAP.	1μF 50V M
C203	NCB31HK-152X	C CAP.	1500pF 50V K
C211	QENCICM-106Z	E CAP.	10μF 16V M
C212	NDC31HJ-100X	C CAP.	10pF 50V J
C221	QETNLHM-106Z	E CAP.	10μF 50V M
C222	QFVFLHJ-104Z	MF CAP.	0.1μF 50V J
C223	NCB31HK-103X	C CAP.	0.01μF 50V K
C233	NDC31HJ-680X	C CAP.	68pF 50V J
C237	NCB31HK-103X	C CAP.	0.01μF 50V K
C241	NCB31HK-103X	C CAP.	0.01μF 50V K
C242	QETNLHM-225Z	E CAP.	2.2μF 50V M
C243	QETNLHM-107Z	E CAP.	100μF 16V M
C244	NCB31HK-103X	C CAP.	0.01μF 50V K
C281	QFVFLHJ-474Z	MF CAP.	0.47μF 50V J
C282	QETNLHM-107Z	E CAP.	100μF 16V M
C283	NCB31HK-103X	C CAP.	0.01μF 50V K
C284	QETNLHM-225Z	E CAP.	2.2μF 50V M
C285	NCB31HK-103X	C CAP.	0.01μF 50V K
C286	QETNLHM-106Z	E CAP.	10μF 50V M
C287	QETNLHM-107Z	E CAP.	100μF 16V M
C288	NCB31HK-103X	C CAP.	0.01μF 50V K
C352	QETNLHM-336Z	E CAP.	33μF 16V M
C354	NCB31HK-103X	C CAP.	0.01μF 50V K
C391	QETNLHM-107Z	E CAP.	100μF 16V M
C392	NCB31HK-103X	C CAP.	0.01μF 50V K
C422	QFLCZAJ-102Z	M CAP.	1000pF 100V J
C424	QETNLHM-107Z	E CAP.	100μF 35V M
C425	QETNLHM-477Z	E CAP.	470μF 35V M
C427	QETNLHM-105Z	E CAP.	1μF 50V M
C428	QETNLEM-228	E CAP.	2200μF 25V M
C431	QFLCZAJ-563Z	M CAP.	0.056μF 100V K
C432	QETNLEM-476Z	E CAP.	47μF 25V M
C433	QETNLEM-476Z	E CAP.	47μF 25V M
C435	NCB31HK-183X	C CAP.	0.018μF 50V K
C440	QCS32HJ-220Z	C CAP.	22pF 500V J
C501	QCB32HK-151Z	C CAP.	150pF 500V K
C502	QCB32HK-331Z	C CAP.	330pF 500V K
C503	QEHRLHM-105Z	E CAP.	1μF 160V M
C504	QEZ0203-107	E CAP.	100μF 160V M
C507	QEM6LHK-475Z	E CAP.	4.7μF 50V K
C508	QEM6LHK-475Z	E CAP.	4.7μF 50V K
△ C510	QFZ0200-53Z	MPP CAP.	5300pF 1.5kVH±3%
△ C510	or QFZ0196-53Z	MPP CAP.	5300pF 1.5kVH±3%
△ C513	QFZ0198-133	MPP CAP.	0.013μF 1.5kVH±3%
△ C514	QFP32GJ-183	PP CAP.	0.018μF 400V J
△ C515	QFZ0199-564	MPP CAP.	0.56μF 250V J
△ C515	or QFZ0197-564	MPP CAP.	0.56μF 250V J
C516	QCB32HK-561Z	C CAP.	560pF 500V K
C521	QETNLEM-106Z	E CAP.	10μF 250V M
C523	QEHRLHM-108Z	E CAP.	1000μF 35V M
C525	QETNLHM-107Z	E CAP.	100μF 35V M
C526	QFVFLHJ-824Z	MF CAP.	0.82μF 50V J
C527	QFLCZAJ-103Z	M CAP.	0.01μF 100V J
C531	QCB32HK-102Z	C CAP.	1000pF 500V K
C533	QETNLHM-106Z	E CAP.	10μF 50V M
C601	QETNLEM-476Z	E CAP.	47μF 25V M
C602	QETNLEM-476Z	E CAP.	47μF 25V M
C603	QETNLEM-476Z	E CAP.	47μF 25V M
C604	NCB31EK-104X	C CAP.	0.1μF 25V K
C605	NCB31EK-104X	C CAP.	0.1μF 25V K
C606	NCB31EK-104X	C CAP.	0.1μF 25V K
C607	QETNLHM-477Z	E CAP.	470μF 10V M
C608	NCB31HK-103X	C CAP.	0.01μF 50V K
C609	QFVFLHJ-104Z	MF CAP.	0.1μF 50V J
C610	QFVFLHJ-104Z	MF CAP.	0.1μF 50V J
C611	QFVFLHJ-104Z	MF CAP.	0.1μF 50V J
C621	NCB31HK-102X	C CAP.	1000pF 50V K
C622	NCF21CZ-105X	C CAP.	1μF 16V Z
C623	NCB31HK-102X	C CAP.	1000pF 50V K
C624	NCF21CZ-105X	C CAP.	1μF 16V Z
C625	QETNLHM-107Z	E CAP.	100μF 16V M

[ AV-32D503/M ]

△ Symbol No.	Part No.	Part Name	Description
<b>CAPACITOR</b>			
C626	QETNLEM-108Z	E CAP.	1000 $\mu$ F 25V M
C627	QETNLMH-474Z	E CAP.	0.47 $\mu$ F 50V M
C628	QETNLEM-108Z	E CAP.	1000 $\mu$ F 25V M
C629	QETNLEM-108Z	E CAP.	1000 $\mu$ F 25V M
C636	QETNLMH-105Z	E CAP.	1 $\mu$ F 50V M
C637	QETNLMH-105Z	E CAP.	1 $\mu$ F 50V M
C652	NCB31EK-104X	C CAP.	0.1 $\mu$ F 25V K
C653	NCB31EK-104X	C CAP.	0.1 $\mu$ F 25V K
C654	NCB31EK-104X	C CAP.	0.1 $\mu$ F 25V K
C655	NCB31HK-103X	C CAP.	0.01 $\mu$ F 50V K
C656	NDC31HJ-150X	C CAP.	150 $\mu$ F 50V J
C657	NDC31HJ-150X	C CAP.	150 $\mu$ F 50V J
C658	NDC31HJ-150X	C CAP.	150 $\mu$ F 50V J
C700	NCB31HK-102X	C CAP.	1000 $\mu$ F 50V K
C701	QETNLMH-106Z	E CAP.	10 $\mu$ F 50V M
C702	QETNLMH-106Z	E CAP.	10 $\mu$ F 50V M
C703	QETNLMH-106Z	E CAP.	10 $\mu$ F 50V M
C704	QETNLMH-107Z	E CAP.	100 $\mu$ F 16V M
C705	NCB31HK-103X	C CAP.	0.01 $\mu$ F 50V K
C706	QETNLMH-105Z	E CAP.	1 $\mu$ F 50V M
C708	NDC31HJ-220X	C CAP.	22 $\mu$ F 50V J
C709	NDC31HJ-220X	C CAP.	22 $\mu$ F 50V J
C711	QETNLMH-107Z	E CAP.	100 $\mu$ F 16V M
C712	NCB31HK-103X	C CAP.	0.01 $\mu$ F 50V K
C716	QETNLMH-106Z	E CAP.	10 $\mu$ F 50V M
C721	NCB31HK-103X	C CAP.	0.01 $\mu$ F 50V K
C726	NDC31HJ-561X	C CAP.	560 $\mu$ F 50V J
C728	NCB31HK-103X	C CAP.	0.01 $\mu$ F 50V K
C807	QETNLMH-477Z	E CAP.	470 $\mu$ F 10V M
C813	NCB31HK-102X	C CAP.	1000 $\mu$ F 50V K
C815	NCB31HK-103X	C CAP.	0.01 $\mu$ F 50V K
C853	QETNLMH-227Z	E CAP.	220 $\mu$ F 16V M
C854	QETNLMH-227Z	E CAP.	220 $\mu$ F 16V M
C856	QETNLMH-227Z	E CAP.	220 $\mu$ F 16V M
C857	QETNLMH-477Z	E CAP.	470 $\mu$ F 16V M
△ C901	QFZ9072-104	MF CAP.	0.1 $\mu$ FAC275V K
△ C901	or QFZ9075-104	MPP CAP.	0.1 $\mu$ FAC275V M
△ C902	QFZ9072-473	MF CAP.	0.047 $\mu$ FAC275V K
△ C902	or QFZ9075-473	MPP CAP.	0.047 $\mu$ FAC275V M
△ C904	QCZ9054-102	C CAP.	1000 $\mu$ FAC250V Z
△ C905	QCZ9054-102	C CAP.	1000 $\mu$ FAC250V Z
△ C906	QCZ9054-102	C CAP.	1000 $\mu$ FAC250V Z
△ C907	QEZ0169-477	E CAP.	470 $\mu$ F 200V M
△ C908	QCZ9079-102	C CAP.	1000 $\mu$ FAC250V M
△ C908	or QCZ9054-102	C CAP.	1000 $\mu$ FAC250V Z
C912	QCZ0340-222	C CAP.	2200 $\mu$ F 2KV K
C913	QFLC1HJ-471Z	M CAP.	470 $\mu$ F 50V J
C914	QETNLMH-107Z	E CAP.	100 $\mu$ F 50V M
C916	NDC31HJ-331X	C CAP.	330 $\mu$ F 50V J
C917	NCB31HK-182X	C CAP.	1800 $\mu$ F 50V K
C918	NCB31HK-104X	C CAP.	0.1 $\mu$ F 50V K
C919	QFP32GJ-103	PP CAP.	0.01 $\mu$ F 400V J
C931	QEZ0203-107	E CAP.	100 $\mu$ F 160V M
C933	QETNLMH-108Z	E CAP.	1000 $\mu$ F 16V M
C934	NDC31HJ-151X	C CAP.	150 $\mu$ F 50V J
C935	QETNLEM-108Z	E CAP.	1000 $\mu$ F 25V M
C937	QCZ0340-102	C CAP.	1000 $\mu$ F 2KV K
C938	QETNLMH-477Z	E CAP.	470 $\mu$ F 16V M
C939	QCB32HK-152Z	C CAP.	1500 $\mu$ F 500V K
C941	QCB32HK-102Z	C CAP.	1000 $\mu$ F 500V K
C942	QEHRLMH-105Z	E CAP.	1 $\mu$ F 50V M
C951	QETNLMH-477Z	E CAP.	470 $\mu$ F 25V M
C952	QETNLMH-227Z	E CAP.	220 $\mu$ F 16V M
C971	QETNLMH-107Z	E CAP.	100 $\mu$ F 16V M
C972	QETNLEM-476Z	E CAP.	47 $\mu$ F 25V M
C973	QETNLMH-106Z	E CAP.	10 $\mu$ F 50V M
△ C997	QCZ9052-102	C CAP.	1000 $\mu$ FAC125V M
△ C998	QCZ9074-103	C CAP.	0.01 $\mu$ FAC250V M
△ C999	QCZ9074-103	C CAP.	0.01 $\mu$ FAC250V M

<b>TRANSF</b>			
T111	QQR0907-001	IFT	
T501	CE42034-002	HOR DRIVE TRANS	
T502	QOH0121-001	FB TRANSF	
△ T921	QOS0138-001	SW TRANSF	
△ T951	QQT0372-001	POWER TRANSF	or QQT0355-001

△ Symbol No.	Part No.	Part Name	Description
<b>COIL</b>			
L001	QQL244K-560Z	COIL	56 $\mu$ H K
L101	QQL2014-R22	INDUCTOR	
L113	QQL244K-487Z	COIL	4.7 $\mu$ H K
L131	QQL244K-150Z	COIL	15 $\mu$ H K
L161	QQL244K-220Z	INDUCTOR	
L232	QQL244K-560Z	COIL	56 $\mu$ H K
L241	QQL244K-220Z	INDUCTOR	
L391	QQL244K-220Z	INDUCTOR	
△ L511	QQR1027-003	LINEARITY COIL	or QQL2027-821
L512	QQL2036-821	INDUCTOR	
△ L521	QQL2026-640	INDUCTOR	
L701	QQL244K-220Z	INDUCTOR	
L702	QQL244K-220Z	INDUCTOR	
L703	QQL244K-220Z	INDUCTOR	
L704	QQL244K-220Z	INDUCTOR	
L705	QQL244K-220Z	INDUCTOR	
L931	QQL26AK-470Z	COIL	47 $\mu$ H K
L933	QQL26AK-470Z	COIL	47 $\mu$ H K
L940	QQR0582-001Z	FERRITE BEADS	

<b>DIODE</b>			
D305	1SS133-T2	SI DIODE	
D306	1SS133-T2	SI DIODE	
D307	1SS133-T2	SI DIODE	
D308	1SS133-T2	SI DIODE	
D309	1SS133-T2	SI DIODE	
D310	1SS133-T2	SI DIODE	
D352	MTZJ9.1C-T2	Z DIODE	
D353	1SS133-T2	SI DIODE	
D354	MTZJ9.3A-T2	Z DIODE	
D421	1N4003-T2	SI DIODE	
D422	MTZJ75-T2	Z DIODE	
D432	1SS133-T2	SI DIODE	
D501	RH3G-F1	SI DIODE	
△ D502	RU3YM-LFC4	SI DIODE	
D521	RH15-T3	SI DIODE	
D523	RGP10J-5025-T3	SI DIODE	
D525	1SS81-T5	SI DIODE	
D526	1SS81-T5	SI DIODE	
D527	1SR124-400A-T2	SI DIODE	
D529	MTZJ5.1C-T2	Z DIODE	
△ D531	MA4068N/Z1/-T2	Z DIODE	
D535	1SS133-T2	SI DIODE	
D537	1SR35-400A-T2	SI DIODE	
D601	MTZJ9.1C-T2	Z DIODE	
D602	MTZJ9.1C-T2	Z DIODE	
D603	MTZJ9.1C-T2	Z DIODE	
D653	1SS133-T2	SI DIODE	
D654	1SS133-T2	SI DIODE	
D700	MTZJ5.6B-T2	Z DIODE	
D701	1SS133-T2	SI DIODE	
D703	MTZJ5.6B-T2	Z DIODE	
D704	MTZJ5.6B-T2	Z DIODE	
D705	1SS133-T2	SI DIODE	
D706	MTZJ5.6B-T2	Z DIODE	
D707	MTZJ5.6B-T2	Z DIODE	
D708	MTZJ5.6B-T2	Z DIODE	
D709	MTZJ5.6B-T2	Z DIODE	
D721	1SS133-T2	SI DIODE	
D722	1SS133-T2	SI DIODE	
D723	MTZJ5.6B-T2	Z DIODE	
D810	MTZJ5.6B-T2	Z DIODE	
△ D901	GS1B460-S1	BRIDGE DIODE	
D910	MA700A-T2	SB DIODE	
△ D911	RGP10J-5025-T3	SI DIODE	
△ D912	RGP10J-5025-T3	SI DIODE	
△ D913	RGP10J-5025-T3	SI DIODE	
D914	1SS133-T2	SI DIODE	
D915	SARS01-T2	SI DIODE	
D917	MTZJ30A-T2	Z DIODE	
D918	MTZJ5.1C-T2	Z DIODE	
D920	1SS133-T2	SI DIODE	
D931	RU3YM-F1	SI DIODE	
D933	RU3YM-LFC4	SI DIODE	
D935	RU3YM-LFC4	SI DIODE	
D941	MTZJ33A-T2	Z DIODE	
D945	MTZJ9.1B-T2	Z DIODE	
D952	1SS133-T2	SI DIODE	
D953	1SS133-T2	SI DIODE	
D954	1N4002G-T2	SI DIODE	

## [ AV-32D503/M ]

△ Symbol No.	Part No.	Part Name	Description
<b>DIODE</b>			
D955	1N4002G-T2	SI DIODE	
D956	1N4002G-T2	SI DIODE	
D957	1N4002G-T2	SI DIODE	
D972	MTZJ15C-T2	Z DIODE	
D973	1SS133-T2	SI DIODE	

**TRANSISTOR**

Q001	UN2212-X	DIGI TRANSISTOR	
Q101	2SC5083/L-P/-T	TRANSISTOR	
Q131	2SB709A/QR/-X	TRANSISTOR	
Q161	2SD601A/QR/-X	TRANSISTOR	
Q211	2SD601A/QR/-X	TRANSISTOR	
Q232	2SD601A/QR/-X	TRANSISTOR	
Q233	2SD601A/QR/-X	TRANSISTOR	
Q352	2SD601A/QR/-X	TRANSISTOR	
Q431	UN2212-X	DIGI TRANSISTOR	
Q501	2SC4212/Z1/	TRANSISTOR	
△ Q511	2SD2645-YD	POWER TRANSISTOR	H. OUT
Q531	2SC2785/JH/-T	SI TRANSISTOR	
Q532	2SB709A/QR/-X	TRANSISTOR	
Q541	2SB709A/QR/-X	TRANSISTOR	
Q542	2SB709A/QR/-X	TRANSISTOR	
Q543	2SD1408/OY/-LB	POW TRANSISTOR	
Q622	2SD601A/QR/-X	TRANSISTOR	
Q623	UN2212-X	DIGI TRANSISTOR	
Q700	2SD601A/QR/-X	TRANSISTOR	
Q701	2SB709A/QR/-X	TRANSISTOR	
Q705	2SD601A/QR/-X	TRANSISTOR	
Q951	2SD1383K/AB/-X	TRANSISTOR	
Q971	2SA1208/ST/Z1-T	TRANSISTOR	

**IC**

IC101	M52342SP	IC	
IC201	TM8812CSBNG3U68	IC	
△ IC421	LA7841	IC	
IC601	TA1287F-X	IC	
IC621	LA4485	IC	
IC702	AT24C08-32D503	IC	(SERVICE)
IC703	S-80840ANY-T	IC	
IC704	AN78L05-T	IC	
IC852	AN7809F	IC	or BA17809T
IC853	AN7805F	IC	or BA17805T
△ IC911	STR-G6624/F8	IC	
△ IC921	SE135N	I C	

**OTHERS**

CF001	QAX0349-001	C TRAP	
CF131	QAX0639-001Z	C TRAP	
CF161	QAX0642-001Z	C FILTER	
CN001	QGB1505J1-35	B TO B CONNE	
CN002	QGB1505J1-25	B TO B CONNE	
CN004	QGA2501C5-05Z	W TO B CONNE	
CN005	QGA2501C5-04Z	W TO B CONNE	
CN007	QGA2501C5-07Z	W TO B CONNE	
△ CN044	QMPD390-200-JS	POWER CORD	or QMPD200-200-JC
△ CP932	ICP-N70-T	C PROTECTOR	
△ CP936	ICP-N70-T	C PROTECTOR	
△ F901	QMF0007-5R0J1	FUSE	5.0A or QMFS1U1-5R0-J8
△ F905	QMF2049-5R0Z-E	FUSE	5.0A
△ FC901	CEM0002-001Z	FUSE CLIP	
△ FC902	CEM0002-001Z	FUSE CLIP	
△ FR525	QRZ9017-4R7	F R	4.7 Ω 1/4W J
△ FR527	QRZ9011-470	F R	47Ω 1/2W J
△ J601	QNN0349-002	PIN JACK	
J810	QNS0001-001	JACK	
K401	QQR0621-002Z	FERRITE BEADS	
K912	QQR0582-001Z	FERRITE BEADS	
K916	QQR0582-001Z	FERRITE BEADS	
K917	QQR0582-001Z	FERRITE BEADS	
K918	QQR0582-001Z	FERRITE BEADS	
K931	QQR0582-001Z	FERRITE BEADS	
K932	QQR0582-001Z	FERRITE BEADS	
K933	QQR0621-002Z	FERRITE BEADS	
K935	QQR0582-001Z	FERRITE BEADS	
LC601	QQR1199-001	EMI FILTER	
LC602	QQR1199-001	EMI FILTER	
LC603	QQR1199-001	EMI FILTER	

△ Symbol No.	Part No.	Part Name	Description
<b>OTHERS</b>			
△ LF901	QQR1085-003	LINE FILTER	or QQR0527-003
△ PC921	TLP421F/D4-GR/	IC(PHOTO COUPLE	
△ RY951	QSK0086-001	RELAY	or QSK0130-001, QSK0085-001
△ S421	QSL4A13-C02	LEVER SWITCH	V. CENTER SW
△ SF101	QAX0723-001	SAW FILTER	
△ TH901	QAD0132-3R0	P THERMISTOR	
△ TU001	QAU0272-001	TUNER	
△ VA901	ERZV10V621CS	ZNR	
△ X701	QAX0717-001Z	CRYSTAL	

**CRT SOCKET P.W. BOARD ASS'Y (SGE-3006A-M2)**

△ Symbol No.	Part No.	Part Name	Description
--------------	----------	-----------	-------------

**RESISTOR**

R3354	NRS463J-221X	MG R	220Ω 1/16W J
R3355	NRS463J-221X	MG R	220Ω 1/16W J
R3356	NRS463J-221X	MG R	220Ω 1/16W J
R3357	NRS463J-101X	MG R	100Ω 1/16W J
R3358	NRS463J-101X	MG R	100Ω 1/16W J
R3359	NRS463J-101X	MG R	100Ω 1/16W J
R3360	QRZ0111-152	C R	1.5kΩ 1/2W K
R3361	QRZ0111-152	C R	1.5kΩ 1/2W K
R3362	QRZ0111-152	C R	1.5kΩ 1/2W K
R3363	QRG029J-103	OM R	10kΩ 2W J
R3364	QRG029J-103	OM R	10kΩ 2W J
R3365	QRG029J-103	OM R	10kΩ 2W J
R3366	NRS463J-182X	MG R	1.8kΩ 1/16W J
R3367	NRS463J-182X	MG R	1.8kΩ 1/16W J
R3368	NRS463J-182X	MG R	1.8kΩ 1/16W J
R3372	NRS463J-221X	MG R	220Ω 1/16W J
R3373	NRS463J-221X	MG R	220Ω 1/16W J
R3374	NRS463J-221X	MG R	220Ω 1/16W J
R3375	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R3376	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R3377	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R3381	QRE121J-394Y	C R	390kΩ 1/2W J
R3391	NRS463J-152X	MG R	1.5kΩ 1/16W J
R3392	NRS463J-392X	MG R	3.9kΩ 1/16W J
R3393	NRS463J-102X	MG R	1kΩ 1/16W J
R3394	NRS463J-102X	MG R	1kΩ 1/16W J
R3395	NRS463J-102X	MG R	1kΩ 1/16W J

**CAPACITOR**

C3354	NDC31HJ-331X	C CAP.	330pF 50V J
C3355	NDC31HJ-331X	C CAP.	330pF 50V J
C3356	NDC31HJ-391X	C CAP.	390pF 50V J
△ C3357	QETN1CM-107Z	E CAP.	100μF 16V M
△ C3382	QCZ0121-102	C CAP.	1000pF 3kV Z
△ C3391	QETN1AM-227Z	E CAP.	220μF 10V M
C3392	NDC31HJ-101X	C CAP.	100pF 50V J

**COIL**

L3381	QQL244K-101Z	PEAKING COIL
-------	--------------	--------------

**DIODE**

D3391	1SS133-T2	SI DIODE
-------	-----------	----------

**TRANSISTOR**

Q3351	2SC4544-LB	POW TRANSISTOR
Q3352	2SC4544-LB	POW TRANSISTOR
Q3353	2SC4544-LB	POW TRANSISTOR
Q3391	2SA933AS/QR/-T	TRANSISTOR

**OTHERS**

CN3004	QJB003-054010	SIN ID C-B WIRE
CN3005	WJA0027-002A	E-S ID WIRE
△ SK3351	QNZ0537-001	CRT SOCKET

## [ AV-32D503/M ]

## PIP P.W. BOARD ASS'Y (SGE-4001A-M2)

△ Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>			
R4001	NRSA63J-103X	MG R	10kΩ 1/16W J
R4002	NRSA63J-103X	MG R	10kΩ 1/16W J
R4003	NRSA63J-101X	MG R	100Ω 1/16W J
R4004	NRSA63J-101X	MG R	100Ω 1/16W J
R4005	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R4008	NRSA63J-820X	MG R	82Ω 1/16W J
R4101	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R4102	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R4108	QRE121J-101Y	C R	100Ω 1/2W J
R4104	NRSA63J-180X	MG R	18Ω 1/16W J
R4105	NRSA63J-270X	MG R	27Ω 1/16W J
R4111	NRSA63J-224X	MG R	220kΩ 1/16W J
R4113	NRSA63J-101X	MG R	100Ω 1/16W J
R4114	NRSA63J-331X	MG R	330Ω 1/16W J
R4115	NRSA63J-101X	MG R	100Ω 1/16W J
R4116	NRSA63J-680X	MG R	68Ω 1/16W J
R4117	NRSA63J-273X	MG R	27kΩ 1/16W J
R4118	NRSA63J-223X	MG R	22kΩ 1/16W J
R4120	NRSA63J-273X	MG R	27kΩ 1/16W J
R4121	NRSA63J-103X	MG R	10kΩ 1/16W J
R4131	NRSA63J-102X	MG R	1kΩ 1/16W J
R4132	NRSA63J-331X	MG R	330Ω 1/16W J
R4133	NRSA63J-821X	MG R	820Ω 1/16W J
R4134	NRSA63J-561X	MG R	560Ω 1/16W J
R4135	NRSA63J-102X	MG R	1kΩ 1/16W J
R4161	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R4163	NRSA63J-223X	MG R	22kΩ 1/16W J
R4171	NRSA63J-103X	MG R	10kΩ 1/16W J
R4301	NRSA63J-473X	MG R	47kΩ 1/16W J
R4303	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R4304	NRSA63J-473X	MG R	47kΩ 1/16W J
R4306	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R4307	NRSA63J-471X	MG R	470Ω 1/16W J
R4309	NRSA63J-102X	MG R	1kΩ 1/16W J
R4311	NRSA63J-101X	MG R	100Ω 1/16W J
R4313	NRSA63J-101X	MG R	100Ω 1/16W J
R4314	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R4316	NRSA63J-331X	MG R	330Ω 1/16W J
R4317	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R4331	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R4337	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R4343	NRSA63J-0R0X	MG R	0.0Ω 1/16W J

**CAPACITOR**

C4001	QETNLHM-475Z	E CAP.	4.7μF 50V M
C4003	QETNLHM-106Z	E CAP.	10μF 50V M
C4004	QETNLHM-107Z	E CAP.	100μF 16V M
C4006	QETNLHM-476Z	E CAP.	47μF 25V M
C4010	NDC31HJ-100X	C CAP.	100F 50V J
C4011	NDC31HJ-100X	C CAP.	100F 50V J
C4101	NCB31HK-103X	C CAP.	0.01μF 50V K
C4102	NCB31HK-103X	C CAP.	0.01μF 50V K
C4104	NCB31HK-103X	C CAP.	0.01μF 50V K
C4105	NCB31HK-103X	C CAP.	0.01μF 50V K
C4106	QETNLHM-476Z	E CAP.	47μF 25V M
C4107	NCB31HK-103X	C CAP.	0.01μF 50V K
C4113	NCB31HK-103X	C CAP.	0.01μF 50V K
C4114	NCB31HK-103X	C CAP.	0.01μF 50V K
C4116	QFVF1HJ-224Z	MF CAP.	0.22μF 50V J
C4117	QETNLHM-476Z	E CAP.	47μF 25V M
C4118	NCB31HK-103X	C CAP.	0.01μF 50V K
C4119	NDC31HJ-681X	C CAP.	680pF 50V J
C4120	QETNLHM-476Z	E CAP.	47μF 50V M
C4124	NCB31HK-103X	C CAP.	0.01μF 50V K
C4131	NCB31HK-103X	C CAP.	0.01μF 50V K
C4132	NDC31HJ-181X	C CAP.	180pF 50V J
C4161	QETNLHM-106Z	E CAP.	10μF 50V M
C4168	NCB31HK-103X	C CAP.	0.01μF 50V K
C4301	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
C4302	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
C4312	NDC31HJ-270X	C CAP.	27pF 50V J
C4313	NDC31HJ-270X	C CAP.	27pF 50V J
C4314	QETNLHM-106Z	E CAP.	10μF 50V M
C4315	NCB31HK-103X	C CAP.	0.01μF 50V K

△ Symbol No.	Part No.	Part Name	Description
--------------	----------	-----------	-------------

**CAPACITOR**

C4316	NCB31HK-103X	C CAP.	0.01μF 50V K
C4317	NCB31HK-103X	C CAP.	0.01μF 50V K
C4318	NCB31HK-103X	C CAP.	0.01μF 50V K
C4319	QETNLHM-106Z	E CAP.	10μF 50V M
C4320	NCB31HK-103X	C CAP.	0.01μF 50V K
C4321	QETNLHM-105Z	E CAP.	1μF 50V M
C4322	NCB31HK-103X	C CAP.	0.01μF 50V K
C4323	QETNLHM-106Z	E CAP.	10μF 50V M
C4324	NCB31HK-103X	C CAP.	0.01μF 50V K
C4325	NCB31HK-103X	C CAP.	0.01μF 50V K
C4326	NCB31EK-104X	C CAP.	0.1μF 25V K
C4327	QETNLHM-225Z	E CAP.	2.2μF 50V M
C4328	NCB31HK-103X	C CAP.	0.01μF 50V K
C4329	QETNLHM-225Z	E CAP.	2.2μF 50V M
C4330	NCB31HK-103X	C CAP.	0.01μF 50V K
C4331	NCB31EK-104X	C CAP.	0.1μF 25V K

**COIL**

L4001	QQL244K-560Z	COIL	56μH K
L4101	QQL2014-R22	INDUCTOR	
L4113	QQL244K-4R7Z	COIL	4.7μH K
L4131	QQL244K-150Z	COIL	15μH K
L4302	QQL244J-6R8Z	COIL	6.8μH J
L4303	QQL244J-6R8Z	COIL	6.8μH J
L4304	QQL244J-6R8Z	COIL	6.8μH J

**DIODE**

D4301	1SS133-T2	SI DIODE	
Q4101	2SC5083/L-P/-T	TRANSISTOR	
Q4131	2SA1037AK/QR/-X	TRANSISTOR	
Q4301	2SD601A/QR/-X	TRANSISTOR	
Q4302	2SD601A/QR/-X	TRANSISTOR	
Q4303	2SD601A/QR/-X	TRANSISTOR	

**IC**

IC4101	M52342SP	IC	
IC4301	SDA9889X-X	IC	

**OTHERS**

CF4131	QAX0639-001Z	C TRAP	
CN4002	QGB1505K1-25	B TO B CONNE	
SF4101	CE42589-201	SAW FILTER	
T4111	QQR0907-001	IFT	
TU4001	QAU0273-001	TUNER	
X4301	QAX0521-001Z	CRYSTAL	

[ AV-32D503/M ]

AV SELECTOR P.W. BOARD ASS'Y (SGE-5001A-M2)

Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>			
R5001	NRS63J-105X	MG R	1MΩ 1/16W J
R5002	NRS63J-104X	MG R	100kΩ 1/16W J
R5003	NRS63J-682X	MG R	6.8kΩ 1/16W J
R5004	NRS63J-153X	MG R	15kΩ 1/16W J
R5005	NRS63J-683X	MG R	68kΩ 1/16W J
R5006	NRS63J-684X	MG R	680kΩ 1/16W J
R5007	NRS63J-332X	MG R	3.3kΩ 1/16W J
R5008	NRS63J-332X	MG R	3.3kΩ 1/16W J
R5009	NRS63J-333X	MG R	33kΩ 1/16W J
R5010	NRS63J-392X	MG R	3.9kΩ 1/16W J
R5011	NRS63J-221X	MG R	220Ω 1/16W J
R5012	NRS63J-221X	MG R	220Ω 1/16W J
R5151	NRS63J-223X	MG R	22kΩ 1/16W J
R5152	NRS63J-223X	MG R	22kΩ 1/16W J
R5153	NRS63J-223X	MG R	22kΩ 1/16W J
R5154	NRS63J-223X	MG R	22kΩ 1/16W J
R5155	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R5157	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R5159	NRS63J-103X	MG R	10kΩ 1/16W J
R5210	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R5211	NRS63J-332X	MG R	3.3kΩ 1/16W J
R5212	NRS63J-103X	MG R	10kΩ 1/16W J
R5213	NRS63J-102X	MG R	1kΩ 1/16W J
R5214	NRS63J-181X	MG R	180Ω 1/16W J
R5215	NRS63J-152X	MG R	1.5kΩ 1/16W J
R5216	NRS63J-182X	MG R	1.8kΩ 1/16W J
R5217	NRS63J-222X	MG R	2.2kΩ 1/16W J
R5240	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R5241	NRS63J-821X	MG R	820Ω 1/16W J
R5242	NRS63J-101X	MG R	100Ω 1/16W J
R5243	NRS63J-101X	MG R	100Ω 1/16W J
R5251	NRS63J-471X	MG R	470Ω 1/16W J
R5253	NRS63J-102X	MG R	1kΩ 1/16W J
R5254	NRS63J-102X	MG R	1kΩ 1/16W J
R5255	NRS63J-681X	MG R	680Ω 1/16W J
R5258	NRS63J-101X	MG R	100Ω 1/16W J
R5259	NRS63J-222X	MG R	2.2kΩ 1/16W J
R5261	NRS63J-101X	MG R	100Ω 1/16W J
R5262	NRS63J-222X	MG R	2.2kΩ 1/16W J
R5263	NRS63J-471X	MG R	470Ω 1/16W J
R5265	NRS63J-102X	MG R	1kΩ 1/16W J
R5269	NRS63J-681X	MG R	680Ω 1/16W J
R5270	NRS63J-102X	MG R	1kΩ 1/16W J
R5304	NRS63J-223X	MG R	22kΩ 1/16W J
R5305	NRS63J-223X	MG R	22kΩ 1/16W J
R5306	NRS63J-223X	MG R	22kΩ 1/16W J
R5307	NRS63J-223X	MG R	22kΩ 1/16W J
R5391	NRS63J-221X	MG R	220Ω 1/16W J
R5392	NRS63J-221X	MG R	220Ω 1/16W J
R5393	NRS63J-823X	MG R	82kΩ 1/16W J
R5394	NRS63J-823X	MG R	82kΩ 1/16W J
R5395	NRS63J-221X	MG R	220Ω 1/16W J
R5396	NRS63J-221X	MG R	220Ω 1/16W J
R5501	NRS63J-221X	MG R	220Ω 1/16W J
R5502	NRS63J-221X	MG R	220Ω 1/16W J
R5503	NRS63J-221X	MG R	220Ω 1/16W J
R5504	NRS63J-221X	MG R	220Ω 1/16W J
R5505	NRS63J-221X	MG R	220Ω 1/16W J
R5507	NRS63J-333X	MG R	33kΩ 1/16W J
R5508	NRS63J-153X	MG R	15kΩ 1/16W J
R5509	NRS63J-221X	MG R	220Ω 1/16W J
R5510	NRS63J-221X	MG R	220Ω 1/16W J
R5511	NRS63J-221X	MG R	220Ω 1/16W J
R5512	NRS63J-221X	MG R	220Ω 1/16W J
R5513	NRS63J-153X	MG R	15kΩ 1/16W J
R5514	NRS63J-103X	MG R	10kΩ 1/16W J
R5515	NRS63J-103X	MG R	10kΩ 1/16W J
R5516	NRS63J-103X	MG R	10kΩ 1/16W J
R5517	NRS63J-103X	MG R	10kΩ 1/16W J
R5519	NRS63J-750X	MG R	75Ω 1/16W J
R5520	NRS63J-750X	MG R	75Ω 1/16W J
R5521	NRS63J-750X	MG R	75Ω 1/16W J
R5522	NRS63J-224X	MG R	220kΩ 1/16W J
R5523	NRS63J-224X	MG R	220kΩ 1/16W J
R5527	NRS63J-750X	MG R	75Ω 1/16W J
R5532	NRS63J-224X	MG R	220kΩ 1/16W J

Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>			
R5533	NRS63J-224X	MG R	220kΩ 1/16W J
R5541	NRS63J-221X	MG R	220Ω 1/16W J
R5542	NRS63J-221X	MG R	220Ω 1/16W J
R5543	NRS63J-221X	MG R	220Ω 1/16W J
R5544	NRS63J-331X	MG R	330Ω 1/16W J
R5545	NRS63J-331X	MG R	330Ω 1/16W J
R5546	NRS63J-103X	MG R	10kΩ 1/16W J
R5558	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R5559	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R5560	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R5561	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R5564	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R5565	NRS63J-0R0X	MG R	0.0Ω 1/16W J

<b>CAPACITOR</b>			
C5001	QENC1HM-475Z	E CAP.	4.7μF 50V M
C5002	NCB31HK-562X	C CAP.	5600pF 50V K
C5003	NCB31HK-123X	C CAP.	0.012μF 50V K
C5004	QETN1HM-105Z	E CAP.	1μF 50V M
C5005	QETN1HM-475Z	E CAP.	4.7μF 50V M
C5006	QETN1HM-106Z	E CAP.	10μF 50V M
C5007	QETN1HM-475Z	E CAP.	4.7μF 50V M
C5008	QETN1CM-107Z	E CAP.	100μF 16V M
C5009	QENC1HM-475Z	E CAP.	4.7μF 50V M
C5010	QETN1HM-475Z	E CAP.	4.7μF 50V M
C5011	QENC1HM-475Z	E CAP.	4.7μF 50V M
C5012	NCB31HK-272X	C CAP.	2700pF 50V K
C5013	NCB31HK-473X	C CAP.	0.047μF 50V K
C5014	QENC1HM-475Z	E CAP.	4.7μF 50V M
C5015	QBTCLCK-106Z	TAN.CAP.	10μF 16V K
C5016	QETN1HM-105Z	E CAP.	1μF 50V M
C5017	QENC1HM-105Z	E CAP.	1μF 50V M
C5018	QETN1HM-105Z	E CAP.	1μF 50V M
C5019	NCB31HK-223X	C CAP.	0.022μF 50V K
C5020	NCB31HK-472X	C CAP.	4700pF 50V K
C5021	QENC1HM-475Z	E CAP.	4.7μF 50V M
C5022	NCB31EK-104X	C CAP.	0.1μF 25V K
C5023	NCB31HK-472X	C CAP.	4700pF 50V K
C5024	QENC1HM-475Z	E CAP.	4.7μF 50V M
C5025	NCB31EK-104X	C CAP.	0.1μF 25V K
C5026	QBTCLCK-335Z	TAN.CAP.	3.3μF 16V K
C5151	QENC1HM-105Z	E CAP.	1μF 50V M
C5152	QENC1HM-105Z	E CAP.	1μF 50V M
C5153	NCB31HK-332X	C CAP.	3300pF 50V K
C5154	NCB31HK-332X	C CAP.	3300pF 50V K
C5155	NCB31EK-333X	C CAP.	0.033μF 25V K
C5156	NCB31EK-333X	C CAP.	0.033μF 25V K
C5157	QETN1HM-106Z	E CAP.	10μF 50V M
C5158	QETN1HM-106Z	E CAP.	10μF 50V M
C5159	QETN1EM-476Z	E CAP.	47μF 25V M
C5160	NCB31EK-104X	C CAP.	0.1μF 25V K
C5203	QETN1EM-476Z	E CAP.	47μF 25V M
C5204	NCB31HK-103X	C CAP.	0.01μF 50V K
C5205	QETN1EM-476Z	E CAP.	47μF 25V M
C5206	NCB31HK-103X	C CAP.	0.01μF 50V K
C5211	QENC1CM-106Z	E CAP.	10μF 16V M
C5212	NDC31HJ-101X	C CAP.	1000pF 50V J
C5213	NDC31HJ-470X	C CAP.	470pF 50V J
C5214	NDC31HJ-181X	C CAP.	1800pF 50V J
C5215	QETN1HM-474Z	E CAP.	0.47μF 50V M
C5216	NCB31HK-103X	C CAP.	0.01μF 50V K
C5231	QETN1CM-107Z	E CAP.	100μF 16V M
C5232	NCB31HK-103X	C CAP.	0.01μF 50V K
C5233	NCB31HK-103X	C CAP.	0.01μF 50V K
C5234	NCB31HK-103X	C CAP.	0.01μF 50V K
C5235	NCB31HK-103X	C CAP.	0.01μF 50V K
C5236	QETN1CM-107Z	E CAP.	100μF 16V M
C5237	NCB31HK-103X	C CAP.	0.01μF 50V K
C5238	QETN1CM-107Z	E CAP.	100μF 16V M
C5239	NCB31HK-103X	C CAP.	0.01μF 50V K
C5240	NCB31HK-103X	C CAP.	0.01μF 50V K
C5241	NCB31HK-103X	C CAP.	0.01μF 50V K
C5242	QETN1CM-107Z	E CAP.	100μF 16V M
C5243	NCB31HK-103X	C CAP.	0.01μF 50V K
C5246	NDC31HJ-181X	C CAP.	1800pF 50V J
C5247	NCB31HK-103X	C CAP.	0.01μF 50V K

[ AV-32D503M ]

Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C5251	QETNLEM-476Z	E CAP.	47µF 25V M
C5252	NCB31HK-103X	C CAP.	0.01µF 50V K
C5255	NDC31HJ-390X	C CAP.	39pF 50V J
C5263	NDC31HJ-150X	C CAP.	15pF 50V J
C5391	QETNLHM-474Z	E CAP.	0.47µF 50V M
C5392	QETNLHM-474Z	E CAP.	0.47µF 50V M
C5501	QETNLHM-225Z	E CAP.	2.2µF 50V M
C5502	QETNLHM-225Z	E CAP.	2.2µF 50V M
C5508	QETNLEM-476Z	E CAP.	47µF 25V M
C5504	QENCLCM-476Z	E CAP.	47µF 16V M
C5506	QETNLEM-476Z	E CAP.	47µF 25V M
C5508	QETNLEM-476Z	E CAP.	47µF 25V M
C5509	NCB31HK-103X	C CAP.	0.01µF 50V K
C5520	QETNLHM-225Z	E CAP.	2.2µF 50V M
C5521	QETNLHM-225Z	E CAP.	2.2µF 50V M
C5531	NCB31HK-103X	C CAP.	0.01µF 50V K
C5532	QETNLEM-476Z	E CAP.	47µF 25V M
C5533	NCB31HK-103X	C CAP.	0.01µF 50V K
C5534	QENCLCM-476Z	E CAP.	47µF 16V M

COIL			
L5202	QQL244K-150Z	COIL	15µH K
L5211	QQL244K-4R7Z	COIL	4.7µH K
L5241	QQL244K-4R7Z	COIL	4.7µH K
L5242	QQL244K-4R7Z	COIL	4.7µH K
L5243	QQL244K-4R7Z	COIL	4.7µH K
L5244	QQL244K-4R7Z	COIL	4.7µH K
L5245	QQL244K-4R7Z	COIL	4.7µH K
L5261	QQL244K-150Z	COIL	15µH K

DIODE			
D5391	MTZJ9.1C-T2	Z DIODE	
D5392	MTZJ9.1C-T2	Z DIODE	
D5501	MTZJ9.1C-T2	Z DIODE	
D5502	MTZJ9.1C-T2	Z DIODE	
D5508	MTZJ9.1C-T2	Z DIODE	
D5504	MTZJ9.1C-T2	Z DIODE	
D5506	MTZJ9.1C-T2	Z DIODE	
D5507	MTZJ9.1C-T2	Z DIODE	
D5508	MTZJ9.1C-T2	Z DIODE	
D5509	MTZJ9.1C-T2	Z DIODE	
D5510	MTZJ9.1C-T2	Z DIODE	
D5511	MTZJ9.1C-T2	Z DIODE	
D5512	MTZJ9.1C-T2	Z DIODE	
D5513	MTZJ9.1C-T2	Z DIODE	

TRANSISTOR			
Q5211	2SD601A/QR/-X	TRANSISTOR	
Q5212	2SD601A/QR/-X	TRANSISTOR	
Q5251	2SD601A/QR/-X	TRANSISTOR	
Q5252	2SB709A/QR/-X	TRANSISTOR	
Q5253	2SD601A/QR/-X	TRANSISTOR	
Q5261	2SD601A/QR/-X	TRANSISTOR	
Q5262	2SD601A/QR/-X	TRANSISTOR	
Q5263	2SB709A/QR/-X	TRANSISTOR	
Q5384	DTC323TK-X	DIGI TRANSISTOR	
Q5385	DTC323TK-X	DIGI TRANSISTOR	
Q5386	DTC323TK-X	DIGI TRANSISTOR	
Q5387	DTC323TK-X	DIGI TRANSISTOR	

IC			
IC5001	CXA2134Q	IC	
IC5151	NJM2150AD	IC	
IC5201	TC90A49P	IC	
IC5301	TA1218AN	IC	

OTHERS			
CN5001	QGB1505K1-35	B TO B CONNE	
CN5006	QGA2501C5-05Z	W TO B CONNE	
J5501	QNZ0454-001	AV JACK	
J5502	QNN0349-001	PIN JACK	
J5508	QNN0348-001	PIN JACK	

FRONT AV IN P.W. BOARD ASS'Y (SGE-6001A-M2)

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R6401	NRSA63J-750X	MG R	75Ω 1/16W J
R6402	NRSA63J-224X	MG R	220KΩ 1/16W J
R6403	NRSA63J-224X	MG R	220KΩ 1/16W J

CAPACITOR			
C6401	QETNLCH-476Z	E CAP.	47µF 16V M
C6402	QETNLHM-225Z	E CAP.	2.2µF 50V M
C6403	QETNLHM-225Z	E CAP.	2.2µF 50V M

OTHERS			
CN6006	QJB003-054010	SIN ID C-B WIRE	
J6401	QNN0281-003	PIN JACK	
J6401	CEMN065-001	PIN JACK	
J6402	QNN0281-002	PIN JACK	
J6402	CEMN065-002	PIN JACK	
J6403	QNN0282-001	PIN JACK	
J6403	CEMN072-003	PIN JACK	
LC6401	QQR1199-001	EMI FILTER	

FRONT CONTROL P.W. BOARD ASS'Y (SGE-7001A-M2)

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R7702	NRSA63J-102X	MG R	1kΩ 1/16W J
R7703	NRSA63J-102X	MG R	1kΩ 1/16W J
R7704	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R7705	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R7706	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R7708	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R7709	NRSA63J-561X	MG R	560Ω 1/16W J

CAPACITOR			
C7701	QETNLEM-476Z	E CAP.	47µF 25V M

DIODE			
D7701	SLR-342VR3F	LED	

TRANSISTOR			
Q7702	UN2112-X	DIGI TRANSISTOR	

IC			
IC701	GP1U281Q	IR DETECT UNIT	

OTHERS			
CN7007	QJB003-074826	SIN ID C-B WIRE	
S7701	QSW0619-003Z	TACT SWITCH	POWER
S7702	QSW0619-003Z	TACT SWITCH	MENU
S7703	QSW0619-003Z	TACT SWITCH	CH-
S7704	QSW0619-003Z	TACT SWITCH	CH+
S7705	QSW0619-003Z	TACT SWITCH	VOL-
S7706	QSW0619-003Z	TACT SWITCH	VOL+

## [ AV-32D503/R ]

## PRINTED WIRING BOARD PARTS LIST

## MAIN P.W. BOARD ASS'Y (SGE-1022A-M2)

Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>			
R002	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R003	NRSA63J-101X	MG R	100Ω 1/16W J
R004	NRSA63J-101X	MG R	100Ω 1/16W J
R005	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R008	NRSA63J-820X	MG R	82Ω 1/16W J
R009	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R101	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R102	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R103	QRE121J-101Y	C R	100Ω 1/2W J
R104	NRSA63J-180X	MG R	18Ω 1/16W J
R105	NRSA63J-270X	MG R	27Ω 1/16W J
R111	NRSA63J-394X	MG R	390kΩ 1/16W J
R112	NRSA63J-334X	MG R	330kΩ 1/16W J
R113	NRSA63J-101X	MG R	100Ω 1/16W J
R115	NRSA63J-101X	MG R	100Ω 1/16W J
R116	NRSA63J-680X	MG R	68Ω 1/16W J
R117	NRSA63J-273X	MG R	27kΩ 1/16W J
R118	NRSA63J-223X	MG R	22kΩ 1/16W J
R131	NRSA63J-102X	MG R	1kΩ 1/16W J
R132	NRSA63J-331X	MG R	330Ω 1/16W J
R133	NRSA63J-821X	MG R	820Ω 1/16W J
R134	NRSA63J-561X	MG R	560Ω 1/16W J
R135	NRSA63J-102X	MG R	1kΩ 1/16W J
R161	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R162	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R163	NRSA63J-223X	MG R	22kΩ 1/16W J
R164	NRSA63J-102X	MG R	1kΩ 1/16W J
R165	NRSA63J-223X	MG R	22kΩ 1/16W J
R166	NRSA63J-103X	MG R	10kΩ 1/16W J
R167	NRSA63J-102X	MG R	1kΩ 1/16W J
R168	NRSA63J-101X	MG R	100Ω 1/16W J
R169	NRSA63J-561X	MG R	560Ω 1/16W J
R171	NRSA63J-103X	MG R	10kΩ 1/16W J
R201	NRSA63J-223X	MG R	22kΩ 1/16W J
R212	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R215	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R216	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R217	NRSA63J-102X	MG R	1kΩ 1/16W J
R222	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R227	NRSA63J-104X	MG R	100kΩ 1/16W J
R231	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R237	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R238	NRSA63J-473X	MG R	47kΩ 1/16W J
R241	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R243	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R281	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R282	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R283	NRSA63J-681X	MG R	680Ω 1/16W J
R286	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R287	NRSA63J-101X	MG R	100Ω 1/16W J
R288	NRSA63J-471X	MG R	470Ω 1/16W J
R289	NRSA63J-154X	MG R	150kΩ 1/16W J
R290	NRSA63J-561X	MG R	560Ω 1/16W J
R292	NRSA63J-124X	MG R	120kΩ 1/16W J
R293	NRSA63J-224X	MG R	220kΩ 1/16W J
R301	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R302	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R303	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R304	NRSA63J-101X	MG R	100Ω 1/16W J
R305	NRSA63J-101X	MG R	100Ω 1/16W J
R306	NRSA63J-101X	MG R	100Ω 1/16W J
R354	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R355	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R356	NRSA63J-123X	MG R	12kΩ 1/16W J
R359	NRSA63J-103X	MG R	10kΩ 1/16W J
R360	NCB31HK-103X	C CAP.	0.01μF 50V K
R421	NRSA63J-822X	MG R	8.2kΩ 1/16W J
R423	NRSA63J-393X	MG R	39kΩ 1/16W J
R424	NRSA63J-393X	MG R	39kΩ 1/16W J
R426	NRSA63J-183X	MG R	18kΩ 1/16W J
R427	QRT029J-1R5	MF R	1.5Ω 2W J

Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>			
R432	NRSA63J-101X	MG R	100Ω 1/16W J
R433	NRSA63J-681X	MG R	680Ω 1/16W J
R434	QRL029J-181	OM R	18Ω 2W J
R435	QRE121J-102Y	C R	1kΩ 1/2W J
R441	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R447	NRSA63J-104X	MG R	100kΩ 1/16W J
R448	NRSA63J-473X	MG R	47kΩ 1/16W J
R449	NRSA63J-103X	MG R	10kΩ 1/16W J
R501	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R502	NRSA63J-271X	MG R	27Ω 1/16W J
R503	QRE121J-103Y	C R	10kΩ 1/2W J
R504	QRL029J-102	OM R	1kΩ 3W J
R505	QRL029J-102	OM R	1kΩ 3W J
R511	QRE121J-220Y	C R	22Ω 1/2W J
R512	QRE121J-681Y	C R	680Ω 1/2W J
R523	QRJ146J-333X	C R	33kΩ 1/4W J
R526	QRE121J-272Y	C R	2.7kΩ 1/2W J
R527	QRE121J-154Y	C R	150kΩ 1/2W J
R528	QRE121J-154Y	C R	150kΩ 1/2W J
R529	NRSA63J-331X	MG R	330Ω 1/16W J
R531	QRJ146J-391X	C R	390Ω 1/4W J
R532	NRSA63J-273X	MG R	27kΩ 1/16W J
R533	NRSA63J-123X	MG R	12kΩ 1/16W J
R534	NRSA63J-123X	MG R	12kΩ 1/16W J
△ R535	NRV402D-222X	MF R	2.2kΩ 1/10W D
△ R537	NRV402D-752X	MF R	7.5kΩ 1/10W D
R538	NRSA63J-333X	MG R	33kΩ 1/16W J
R543	QRE121J-122Y	C R	1.2kΩ 1/2W J
R544	QRE121J-392Y	C R	3.9kΩ 1/2W J
R545	QRE121J-822Y	C R	8.2kΩ 1/2W J
R546	NRSA63J-331X	MG R	330Ω 1/16W J
R547	NRSA63J-104X	MG R	100kΩ 1/16W J
R548	QRE121J-152Y	C R	1.5kΩ 1/2W J
△ R553	QRL029J-180	OM R	18Ω 3W J
△ R554	QRK126J-150X	C R	15Ω 1/2W J
R555	QRX029J-3R3	MF R	3.3Ω 2W J
R601	NRSA63J-750X	MG R	75Ω 1/16W J
R602	NRSA63J-750X	MG R	75Ω 1/16W J
R603	NRSA63J-750X	MG R	75Ω 1/16W J
R614	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R615	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R621	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R622	NRSA63J-681X	MG R	680Ω 1/16W J
R623	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R624	NRSA63J-681X	MG R	680Ω 1/16W J
R626	NRSA63J-223X	MG R	22kΩ 1/16W J
R627	NRSA63J-223X	MG R	22kΩ 1/16W J
R631	NRSA63J-333X	MG R	33kΩ 1/16W J
R632	NRSA63J-223X	MG R	22kΩ 1/16W J
R638	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R639	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R651	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R652	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R653	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R655	NRSA63J-153X	MG R	15kΩ 1/16W J
R700	NRSA63J-102X	MG R	1kΩ 1/16W J
R701	NRSA63J-103X	MG R	10kΩ 1/16W J
R702	NRSA63J-102X	MG R	1kΩ 1/16W J
R704	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R705	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R706	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R707	NRSA63J-103X	MG R	10kΩ 1/16W J
R708	NRSA63J-101X	MG R	100Ω 1/16W J
R709	NRSA63J-101X	MG R	100Ω 1/16W J
R714	NRSA63J-823X	MG R	82kΩ 1/16W J
R715	NRSA63J-103X	MG R	10kΩ 1/16W J
R718	NRSA63J-223X	MG R	22kΩ 1/16W J
R721	NRSA63J-102X	MG R	1kΩ 1/16W J
R728	NRSA63J-102X	MG R	1kΩ 1/16W J
R729	NRSA63J-223X	MG R	22kΩ 1/16W J
R731	NRSA63J-101X	MG R	100Ω 1/16W J

## [ AV-32D503/R ]

Symbol No.	Part No.	Part Name	Description
------------	----------	-----------	-------------

## RESISTOR

R732	NRSA63J-101X	MG R	100Ω 1/16W J
R733	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R734	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R737	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R739	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R740	NRSA63J-103X	MG R	10kΩ 1/16W J
R754	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R755	NRSA63J-153X	MG R	15kΩ 1/16W J
R756	NRSA63J-103X	MG R	10kΩ 1/16W J
R764	NRSA63J-221X	MG R	220Ω 1/16W J
R765	NRSA63J-221X	MG R	220Ω 1/16W J
R766	NRSA63J-221X	MG R	220Ω 1/16W J
R767	NRSA63J-221X	MG R	220Ω 1/16W J
R769	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R772	NRSA63J-103X	MG R	10kΩ 1/16W J
R775	NRSA63J-473X	MG R	47kΩ 1/16W J
R776	NRSA63J-103X	MG R	10kΩ 1/16W J
R811	NRSA63J-473X	MG R	47kΩ 1/16W J
R812	NRSA63J-102X	MG R	1kΩ 1/16W J
R816	NRSA63J-124X	MG R	120kΩ 1/16W J
R821	NRSA63J-184X	MG R	180kΩ 1/16W J
R822	NRSA63J-124X	MG R	120kΩ 1/16W J
R827	NRSA63J-102X	MG R	1kΩ 1/16W J
R855	QRG09J-100	OM R	10Ω 3W J
R857	QRL029J-330	OM R	33Ω 2W J
R858	QRL029J-390	OM R	39Ω 2W J
R901	QRF074K-R47	UNF R	0.47Ω 7W K
R909	QRG01GJ-470	OM R	47Ω 1W J
R911	QRE121J-223Y	C R	22kΩ 1/2W J
R912	QRT029J-R22	MF R	0.22Ω 2W J
R913	QRT029J-R22	MF R	0.22Ω 2W J
R914	QRK126J-681X	C R	680Ω 1/2W J
R915	QRK129J-6R8	C R	6.8Ω 1/2W J
R917	QRK126J-332X	C R	3.3kΩ 1/2W J
R918	QRE121J-222Y	C R	2.2kΩ 1/2W J
R919	QRE121J-684Y	C R	680kΩ 1/2W J
R924	QRE121J-222Y	C R	2.2kΩ 1/2W J
R930	QRE121J-223Y	C R	22kΩ 1/2W J
R939	QRT039J-2R2	MF R	2.2Ω 3W J
R940	QRE121J-181Y	C R	180Ω 1/2W J
R941	QRL029J-183	OM R	18kΩ 2W J
R950	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R951	NRSA63J-473X	MG R	47kΩ 1/16W J
R952	NRSA63J-102X	MG R	1kΩ 1/16W J
R953	QRE121J-820Y	C R	82Ω 1/2W J
R973	QRE121J-272Y	C R	2.7kΩ 1/2W J
R975	QRE121J-223Y	C R	22kΩ 1/2W J
R977	QRE121J-473Y	C R	47kΩ 1/2W J
R978	NRSA63J-333X	MG R	33kΩ 1/16W J
R979	QRT029J-1R2	MF R	1.2Ω 2W J
R980	QRT029J-1R2	MF R	1.2Ω 2W J
R998	QRZ9041-275	C R	2.7MΩ 1/2W K
R999	QRE121J-121Y	C R	120Ω 1/2W J

## CAPACITOR

C001	QETNLHM-475Z	E CAP.	4.7μF 50V M
C003	QETNLHM-106Z	E CAP.	10μF 50V M
C004	QETNLHM-108Z	E CAP.	1000μF 16V M
C006	QETNLEM-476Z	E CAP.	47μF 25V M
C101	NCB31HK-103X	C CAP.	0.01μF 50V K
C102	NCB31HK-103X	C CAP.	0.01μF 50V K
C104	NCB31HK-103X	C CAP.	0.01μF 50V K
C105	NCB31HK-103X	C CAP.	0.01μF 50V K
C106	QETNLEM-476Z	E CAP.	47μF 25V M
C107	NCB31HK-103X	C CAP.	0.01μF 50V K
C113	NCB31HK-103X	C CAP.	0.01μF 50V K
C114	NCB31HK-103X	C CAP.	0.01μF 50V K
C116	QFVFLHJ-224Z	MF CAP.	0.22μF 50V J
C117	QETNLEM-476Z	E CAP.	47μF 25V M
C118	NCB31HK-103X	C CAP.	0.01μF 50V K
C119	NDC31HJ-681X	C CAP.	680pF 50V J
C120	QETNLHM-474Z	E CAP.	0.47μF 50V M
C124	NCB31HK-103X	C CAP.	0.01μF 50V K
C131	NCB31HK-103X	C CAP.	0.01μF 50V K

Symbol No.	Part No.	Part Name	Description
------------	----------	-----------	-------------

## CAPACITOR

C161	QETNLHM-106Z	E CAP.	10μF 50V M
C163	NDC31HJ-470X	C CAP.	47pF 50V J
C164	NDC31HJ-470X	C CAP.	47pF 50V J
C165	NCB31HK-103X	C CAP.	0.01μF 50V K
C166	NCB31HK-103X	C CAP.	0.01μF 50V K
C202	QETNLHM-105Z	E CAP.	1μF 50V M
C203	NCB31HK-152X	C CAP.	1500pF 50V K
C211	QENCICM-106Z	E CAP.	10μF 16V M
C212	NDC31HJ-100X	C CAP.	10pF 50V J
C221	QETNLHM-106Z	E CAP.	10μF 50V M
C222	QFVFLHJ-104Z	MF CAP.	0.1μF 50V J
C223	NCB31HK-103X	C CAP.	0.01μF 50V K
C233	NDC31HJ-680X	C CAP.	68pF 50V J
C237	NCB31HK-103X	C CAP.	0.01μF 50V K
C241	NCB31HK-103X	C CAP.	0.01μF 50V K
C242	QETNLHM-225Z	E CAP.	2.2μF 50V M
C243	QETNLHM-107Z	E CAP.	100μF 16V M
C244	NCB31HK-103X	C CAP.	0.01μF 50V K
C281	QFVFLHJ-474Z	MF CAP.	0.47μF 50V J
C282	QETNLHM-107Z	E CAP.	100μF 16V M
C283	NCB31HK-103X	C CAP.	0.01μF 50V K
C284	QETNLHM-225Z	E CAP.	2.2μF 50V M
C285	NCB31HK-103X	C CAP.	0.01μF 50V K
C286	QETNLHM-106Z	E CAP.	10μF 50V M
C287	QETNLHM-107Z	E CAP.	100μF 16V M
C288	NCB31HK-103X	C CAP.	0.01μF 50V K
C352	QETNLHM-336Z	E CAP.	33μF 16V M
C354	NCB31HK-103X	C CAP.	0.01μF 50V K
C391	QETNLHM-107Z	E CAP.	100μF 16V M
C392	NCB31HK-103X	C CAP.	0.01μF 50V K
C422	QFLCZAJ-102Z	M CAP.	1000pF 100V J
C424	QETNLHM-107Z	E CAP.	100μF 35V M
C425	QETNLHM-477Z	E CAP.	470μF 35V M
C427	QETNLHM-105Z	E CAP.	1μF 50V M
C428	QETN1EM-228	E CAP.	2200μF 25V M
C431	QFLCZAK-563Z	M CAP.	0.056μF 100V K
C432	QETN1EM-476Z	E CAP.	47μF 25V M
C433	QETN1EM-476Z	E CAP.	47μF 25V M
C435	NCB31HK-183X	C CAP.	0.018μF 50V K
C440	QCS32HJ-220Z	C CAP.	22pF 500V J
C501	QCB32HK-151Z	C CAP.	150pF 500V K
C502	QCB32HK-331Z	C CAP.	330pF 500V K
C503	QEHRCM-105Z	E CAP.	1μF 160V M
C504	QEZO203-107	E CAP.	100μF 160V M
C507	QEMGLHK-475Z	E CAP.	4.7μF 50V K
C508	QEMGLHK-475Z	E CAP.	4.7μF 50V K
C510	QFZO200-532	MPP CAP.	5300pF 1.5kVH±3%
C510	or QFZO196-532	MPP CAP.	5300pF 1.5kVH±3%
C513	QFZO198-133	MPP CAP.	0.013μF 1.5kVH±3%
C514	QFP32GJ-183	PP CAP.	0.018μF 400V J
C515	QFZO199-564	MPP CAP.	0.56μF 250V J
C515	or QFZO197-564	MPP CAP.	0.56μF 250V J
C516	QCB32HK-561Z	C CAP.	560pF 500V K
C521	QETN2EM-106Z	E CAP.	10μF 250V M
C523	QEHRLVM-108Z	E CAP.	1000μF 35V M
C525	QETNLHM-107Z	E CAP.	100μF 35V M
C526	QFV21HJ-824Z	MF CAP.	0.82μF 50V J
C527	QFLCZAJ-103Z	M CAP.	0.01μF 100V J
C531	QCB32HK-102Z	C CAP.	1000pF 500V K
C533	QETNLHM-106Z	E CAP.	10μF 50V M
C601	QETNLEM-476Z	E CAP.	47μF 25V M
C602	QETNLEM-476Z	E CAP.	47μF 25V M
C603	QETNLEM-476Z	E CAP.	47μF 25V M
C604	NCB31EK-104X	C CAP.	0.1μF 25V K
C605	NCB31EK-104X	C CAP.	0.1μF 25V K
C606	NCB31EK-104X	C CAP.	0.1μF 25V K
C607	QETNLHM-477Z	E CAP.	470μF 10V M
C608	NCB31HK-103X	C CAP.	0.01μF 50V K
C609	QFVFLHJ-104Z	MF CAP.	0.1μF 50V J
C610	QFVFLHJ-104Z	MF CAP.	0.1μF 50V J
C611	QFVFLHJ-104Z	MF CAP.	0.1μF 50V J
C621	NCB31HK-102X	C CAP.	1000pF 50V K
C622	NCF21CZ-105X	C CAP.	1μF 16V Z
C623	NCB31HK-102X	C CAP.	1000pF 50V K
C624	NCF21CZ-105X	C CAP.	1μF 16V Z
C625	QETNLHM-107Z	E CAP.	100μF 16V M



[ AV-32D503/R ]

△ Symbol No.	Part No.	Part Name	Description
<b>CAPACITOR</b>			
C626	QETNLEM-108Z	E CAP.	1000μF 25V M
C627	QETNLEM-474Z	E CAP.	0.47μF 50V M
C628	QETNLEM-108Z	E CAP.	1000μF 25V M
C629	QETNLEM-108Z	E CAP.	1000μF 25V M
C636	QETNLEM-105Z	E CAP.	1μF 50V M
C637	QETNLEM-105Z	E CAP.	1μF 50V M
C652	NCB31EK-104X	C CAP.	0.1μF 25V K
C653	NCB31EK-104X	C CAP.	0.1μF 25V K
C654	NCB31EK-104X	C CAP.	0.1μF 25V K
C655	NCB31HK-103X	C CAP.	0.01μF 50V K
C656	NDC31HJ-150X	C CAP.	150pF 50V J
C657	NDC31HJ-150X	C CAP.	150pF 50V J
C658	NDC31HJ-150X	C CAP.	150pF 50V J
C700	NCB31HK-102X	C CAP.	1000pF 50V K
C701	QETNLEM-106Z	E CAP.	10μF 50V M
C702	QETNLEM-106Z	E CAP.	10μF 50V M
C703	QETNLEM-106Z	E CAP.	10μF 50V M
C704	QETNLEM-107Z	E CAP.	100μF 16V M
C705	NCB31HK-103X	C CAP.	0.01μF 50V K
C706	QETNLEM-105Z	E CAP.	1μF 50V M
C708	NDC31HJ-220X	C CAP.	220pF 50V J
C709	NDC31HJ-220X	C CAP.	220pF 50V J
C711	QETNLEM-107Z	E CAP.	100μF 16V M
C712	NCB31HK-103X	C CAP.	0.01μF 50V K
C716	QETNLEM-106Z	E CAP.	10μF 50V M
C721	NCB31HK-103X	C CAP.	0.01μF 50V K
C726	NDC31HJ-561X	C CAP.	560pF 50V J
C728	NCB31HK-103X	C CAP.	0.01μF 50V K
C807	QETNLEM-477Z	E CAP.	470μF 10V M
C813	NCB31HK-102X	C CAP.	1000pF 50V K
C815	NCB31HK-103X	C CAP.	0.01μF 50V K
C853	QETNLEM-227Z	E CAP.	220μF 16V M
C854	QETNLEM-227Z	E CAP.	220μF 16V M
C856	QETNLEM-227Z	E CAP.	220μF 16V M
C857	QETNLEM-477Z	E CAP.	470μF 16V M
△ C901	QFZ9072-104	MF CAP.	0.1μFAC275V K
△ C901	or QFZ9075-104	MPP CAP.	0.1μFAC275V M
△ C902	QFZ9072-473	MF CAP.	0.047μFAC275V K
△ C902	or QFZ9075-473	MPP CAP.	0.047μFAC275V M
△ C904	QCZ9054-102	C CAP.	1000pFAC250V Z
△ C905	QCZ9054-102	C CAP.	1000pFAC250V Z
△ C906	QCZ9054-102	C CAP.	1000pFAC250V Z
△ C907	QEZO169-477	E CAP.	470μF 200V M
△ C908	QCZ9079-102	C CAP.	1000pFAC250V M
△ C908	or QCZ9054-102	C CAP.	1000pFAC250V Z
C912	QCZ0340-22Z	C CAP.	2200pF 2kV K
C913	QFLCHJ-471Z	M CAP.	470pF 50V J
C914	QETNLEM-107Z	E CAP.	100μF 50V M
C916	NDC31HJ-331X	C CAP.	330pF 50V J
C917	NCB31HK-182X	C CAP.	1800pF 50V K
C918	NCB21HK-104X	C CAP.	0.1μF 50V K
C919	QFP32GJ-103	PP CAP.	0.01μF 400V J
C931	QEZO203-107	E CAP.	100μF 160V M
C933	QETNLEM-108Z	E CAP.	1000μF 16V M
C934	NDC31HJ-151X	C CAP.	150pF 50V J
C935	QETNLEM-108Z	E CAP.	1000μF 25V M
C937	QCZ0340-102	C CAP.	1000pF 2kV K
C938	QETNLEM-477Z	E CAP.	470μF 16V M
C939	QCB32HK-152Z	C CAP.	1500pF 500V K
C941	QCB32HK-102Z	C CAP.	1000pF 500V K
C942	QEHRLHM-105Z	E CAP.	1μF 50V M
C951	QETNLEM-477Z	E CAP.	470μF 25V M
C952	QETNLEM-227Z	E CAP.	220μF 16V M
C971	QETNLEM-107Z	E CAP.	100μF 16V M
C972	QETNLEM-476Z	E CAP.	47μF 25V M
△ C973	QETNLEM-106Z	E CAP.	10μF 50V M
△ C997	QCZ9052-102	C CAP.	1000pFAC125V M
△ C998	QCZ9074-103	C CAP.	0.01μFAC250V M
△ C999	QCZ9074-103	C CAP.	0.01μFAC250V M

**TRANSF**

T111	QQR0907-001	IFT	
T501	CE42034-002	HOR DRIVE TRANS	
△ T502	QHQ0121-001	FB TRANSF	
△ T921	QQS0138-001	SW TRANSF	
△ T951	QQT0372-001	POWER TRANSF	or QQT0355-001

△ Symbol No.	Part No.	Part Name	Description
<b>COIL</b>			
L001	QQL244K-560Z	COIL	56μH K
L101	QQL2014-R2Z	INDUCTOR	
L113	QQL244K-4R7Z	COIL	4.7μH K
L131	QQL244K-150Z	COIL	15μH K
L161	QQL244K-220Z	INDUCTOR	
L232	QQL244K-560Z	COIL	56μH K
L241	QQL244K-220Z	INDUCTOR	
L391	QQL244K-220Z	INDUCTOR	
△ L511	CE41029-00A	LINEARITY COIL	
L512	QQL2036-821	INDUCTOR	or QQL2027-821
△ L521	QQL2026-540	INDUCTOR	
L701	QQL244K-220Z	INDUCTOR	
L702	QQL244K-220Z	INDUCTOR	
L703	QQL244K-220Z	INDUCTOR	
L704	QQL244K-220Z	INDUCTOR	
L705	QQL244K-220Z	INDUCTOR	
L931	QQL26AK-470Z	COIL	47μH K
L933	QQL26AK-470Z	COIL	47μH K
L940	QQR0582-001Z	FERRITE BEADS	

**DIODE**

D305	1SS133-T2	SI DIODE	
D306	1SS133-T2	SI DIODE	
D307	1SS133-T2	SI DIODE	
D308	1SS133-T2	SI DIODE	
D309	1SS133-T2	SI DIODE	
D310	1SS133-T2	SI DIODE	
D352	MTZJ9.1C-T2	Z DIODE	
D353	1SS133-T2	SI DIODE	
D354	MTZJ9.3A-T2	Z DIODE	
D421	1N4003-T2	SI DIODE	
D422	MTZJ75-T2	Z DIODE	
D432	1SS133-T2	SI DIODE	
D501	RH3G-F1	SI DIODE	
△ D502	RU3AM-LFC4	SI DIODE	
D521	RH1S-T3	SI DIODE	
D523	RGPI0J-5025-T3	SI DIODE	
D525	1SS81-T5	SI DIODE	
D526	1SS81-T5	SI DIODE	
D527	1SR124-400A-T2	SI DIODE	
D529	MTZJ5.1C-T2	Z DIODE	
△ D531	MA4068N/Z1/-T2	Z DIODE	
D535	1SS133-T2	SI DIODE	
D537	1SR35-400A-T2	SI DIODE	
D601	MTZJ9.1C-T2	Z DIODE	
D602	MTZJ9.1C-T2	Z DIODE	
D603	MTZJ9.1C-T2	Z DIODE	
D653	1SS133-T2	SI DIODE	
D654	1SS133-T2	SI DIODE	
D700	MTZJ5.6B-T2	Z DIODE	
D701	1SS133-T2	SI DIODE	
D703	MTZJ5.6B-T2	Z DIODE	
D704	MTZJ5.6B-T2	Z DIODE	
D705	1SS133-T2	SI DIODE	
D706	MTZJ5.6B-T2	Z DIODE	
D707	MTZJ5.6B-T2	Z DIODE	
D708	MTZJ5.6B-T2	Z DIODE	
D709	MTZJ5.6B-T2	Z DIODE	
D721	1SS133-T2	SI DIODE	
D722	1SS133-T2	SI DIODE	
D723	MTZJ5.6B-T2	Z DIODE	
D810	MTZJ5.6B-T2	Z DIODE	
△ D901	GS1B460-S1	BRIDGE DIODE	
D910	MA700A-T2	SB DIODE	
△ D911	RGPI0J-5025-T3	SI DIODE	
△ D912	RGPI0J-5025-T3	SI DIODE	
△ D913	RGPI0J-5025-T3	SI DIODE	
D914	1SS133-T2	SI DIODE	
D915	SAR501-T2	SI DIODE	
D917	MTZJ30A-T2	Z DIODE	
D918	MTZJ5.1C-T2	Z DIODE	
D920	1SS133-T2	SI DIODE	
D931	RU30A-F1	SI DIODE	
D933	RU3YK-LFC4	SI DIODE	
D935	RU3YK-LFC4	SI DIODE	
D941	MTZJ33A-T2	Z DIODE	
D945	MTZJ9.1B-T2	Z DIODE	
D952	1SS133-T2	SI DIODE	
D953	1SS133-T2	SI DIODE	
D954	1N4002G-T2	SI DIODE	

## [ AV-32D503/R ]

△ Symbol No.	Part No.	Part Name	Description
<b>DIODE</b>			
D955	1N4002G-T2	SI DIODE	
D956	1N4002G-T2	SI DIODE	
D957	1N4002G-T2	SI DIODE	
D972	MTZJ15C-T2	Z DIODE	
D973	1SS133-T2	SI DIODE	

<b>TRANSISTOR</b>			
Q001	UN2212-X	DIGI TRANSISTOR	
Q101	2SC5083/L-P/-T	TRANSISTOR	
Q131	2SB709A/QR/-X	TRANSISTOR	
Q161	2SD601A/QR/-X	TRANSISTOR	
Q211	2SD601A/QR/-X	TRANSISTOR	
Q232	2SD601A/QR/-X	TRANSISTOR	
Q233	2SD601A/QR/-X	TRANSISTOR	
Q352	2SD601A/QR/-X	TRANSISTOR	
Q431	UN2212-X	DIGI TRANSISTOR	
Q501	2SC4212/Z1/	TRANSISTOR	
△ Q511	2SD2645-YD	POWER TRANSISTOR	H. OUT
Q531	2SC2785/JH/-T	SI TRANSISTOR	
Q532	2SB709A/QR/-X	TRANSISTOR	
Q541	2SB709A/QR/-X	TRANSISTOR	
Q542	2SB709A/QR/-X	TRANSISTOR	
Q543	2SD1408/OY/-LB	POW TRANSISTOR	
Q622	2SD601A/QR/-X	TRANSISTOR	
Q623	UN2212-X	DIGI TRANSISTOR	
Q700	2SD601A/QR/-X	TRANSISTOR	
Q701	2SB709A/QR/-X	TRANSISTOR	
Q705	2SD601A/QR/-X	TRANSISTOR	
Q951	2SD1383K/AB/-X	TRANSISTOR	
Q971	2SA1208/ST/Z1-T	TRANSISTOR	

<b>IC</b>			
IC101	M52342SP	IC	
IC201	TM8812CSBNG3U68	IC	
△ IC421	LA7841	IC	
IC601	TA1287F-X	IC	
IC621	LA4485	IC	
IC702	AT24C08-32D50B	IC	(SERVICE)
IC708	S-80840ANY-T	IC	
IC704	AN78L05-T	IC	
IC852	AN7809F	IC	or BA17809T
IC853	AN7805F	IC	or BA17805T
△ IC911	STR-G6624/F8	IC	
△ IC921	SE135N	I C	

<b>OTHERS</b>			
CF001	QAX0349-001	C TRAP	
CF131	QAX0639-001Z	C TRAP	
CF161	QAX0642-001Z	C FILTER	
CN001	QGB1505J1-35	B TO B CONNE	
CN002	QGB1505J1-25	B TO B CONNE	
CN004	QGA2501C5-05Z	W TO B CONNE	
CN005	QGA2501C5-04Z	W TO B CONNE	
CN007	QGA2501C5-07Z	W TO B CONNE	
△ CN0PW	QMPD890-200-JS	POWER CORD	or QMPD200-200-JC
△ CP932	ICP-N70-T	C PROTECTOR	
△ CP936	ICP-N70-T	C PROTECTOR	
△ F901	QMF0007-5R0J1	FUSE	5.0A or QMF51U1-5R0-J8
△ F905	QMF2049-5R0Z-E	FUSE	5.0A
△ FC901	CEM002-001Z	FUSE CLIP	
△ FC902	CEM002-001Z	FUSE CLIP	
△ FR525	QRZ9017-4R7	F R	4.7 Ω 1/4W J
△ FR527	QRZ9011-470	F R	47Ω 1/2W J
J601	QNN0349-002	PIN JACK	
J810	QNS0001-001	JACK	
K401	QQR0621-002Z	FERRITE BEADS	
K912	QQR0582-001Z	FERRITE BEADS	
K916	QQR0582-001Z	FERRITE BEADS	
K917	QQR0582-001Z	FERRITE BEADS	
K918	QQR0582-001Z	FERRITE BEADS	
K931	QQR0582-001Z	FERRITE BEADS	
K932	QQR0582-001Z	FERRITE BEADS	
K933	QQR0621-002Z	FERRITE BEADS	
K935	QQR0582-001Z	FERRITE BEADS	
LC601	QQR1199-001	EMI FILTER	
LC602	QQR1199-001	EMI FILTER	
LC608	QQR1199-001	EMI FILTER	

△ Symbol No.	Part No.	Part Name	Description
<b>OTHERS</b>			
△ LF901	QQR1085-003	LINE FILTER	or QQR0527-00B
△ PC921	TLP421F/D4-GR/	IC (PHOTO COUPLE	
△ RY951	QSK0086-001	RELAY	or QSK0130-001, QSK0085-001
S421	QSL4413-C02	LEVER SWITCH	
SF101	QAX0723-001	SAW FILTER	
△ TH901	QAD0132-3R0	P THERMISTOR	
△ TU001	QAU0272-001	TUNER	
△ VA901	ERZV10V621CS	ZNR	
X701	QAX0717-001Z	CRYSTAL	

**CRT SOCKET P.W. BOARD ASS'Y (SGE-3007A-M2)**

△ Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>			
R3354	NRSA63J-221X	MG R	220Ω 1/16W J
R3355	NRSA63J-221X	MG R	220Ω 1/16W J
R3356	NRSA63J-221X	MG R	220Ω 1/16W J
R3357	NRSA63J-101X	MG R	100Ω 1/16W J
R3358	NRSA63J-101X	MG R	100Ω 1/16W J
R3359	NRSA63J-101X	MG R	100Ω 1/16W J
R3360	QRZ0111-152	C R	1.5kΩ 1/2W K
R3361	QRZ0111-152	C R	1.5kΩ 1/2W K
R3362	QRZ0111-152	C R	1.5kΩ 1/2W K
R3363	QRG029J-103	OM R	10kΩ 2W J
R3364	QRG029J-103	OM R	10kΩ 2W J
R3365	QRG029J-103	OM R	10kΩ 2W J
R3366	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R3367	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R3368	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R3372	NRSA63J-221X	MG R	220Ω 1/16W J
R3373	NRSA63J-221X	MG R	220Ω 1/16W J
R3374	NRSA63J-221X	MG R	220Ω 1/16W J
R3375	NRSA63J-OROX	MG R	0.Ω 1/16W J
R3376	NRSA63J-OROX	MG R	0.Ω 1/16W J
R3377	NRSA63J-OROX	MG R	0.Ω 1/16W J
R3381	QRE121J-394Y	C R	390kΩ 1/2W J
R3391	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R3392	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R3393	NRSA63J-102X	MG R	1kΩ 1/16W J
R3394	NRSA63J-102X	MG R	1kΩ 1/16W J
R3395	NRSA63J-102X	MG R	1kΩ 1/16W J

<b>CAPACITOR</b>			
C3354	NDC31HJ-331X	C CAP.	330pF 50V J
C3355	NDC31HJ-331X	C CAP.	330pF 50V J
C3356	NDC31HJ-391X	C CAP.	390pF 50V J
C3357	QETNLCM-107Z	E CAP.	100μF 16V M
△ C3382	QCZ0121-102	C CAP.	1000pF 3kV Z
C3391	QETNLCM-227Z	E CAP.	220μF 10V M
C3392	NDC31HJ-101X	C CAP.	100pF 50V J

<b>COIL</b>			
L3381	QQL244K-101Z	PEAKING COIL	

<b>DIODE</b>			
D3391	1SS133-T2	SI DIODE	

<b>TRANSISTOR</b>			
Q3351	2SC4544-LB	POW TRANSISTOR	
Q3352	2SC4544-LB	POW TRANSISTOR	
Q3353	2SC4544-LB	POW TRANSISTOR	
Q3391	2SA938AS/QR/-T	TRANSISTOR	

<b>OTHERS</b>			
CN3004	QJB003-054010	SIN ID C-B WIRE	
CN3005	WJA0027-002A	E-S ID WIRE	
△ SK3351	QNZ0537-001	CRT SOCKET	or QNZ0536-001

**[ AV-32D503/R ]****PIP P.W. BOARD ASS'Y (SGE-4001A-M2)**

Refer to PARTS LIST in page 44 for this P.W. board

**AV SELECTOR P.W. BOARD ASS'Y (SGE-5001A-M2)**

Refer to PARTS LIST in page 45 for this P.W. board

**FRONT AV IN P.W. BOARD ASS'Y (SGE-6001A-M2)**

Refer to PARTS LIST in page 46 for this P.W. board

**FRONT CONTROL P.W. BOARD ASS'Y  
(SGE-7001A-M2)**

Refer to PARTS LIST in page 46 for this P.W. board

## [ AV-32D503/Y ]

## PRINTED WIRING BOARD PARTS LIST

## MAIN P.W. BOARD ASS'Y (SGE-1003A-M2)

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R002	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R003	NRSA63J-101X	MG R	100Ω 1/16W J
R004	NRSA63J-101X	MG R	100Ω 1/16W J
R005	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R008	NRSA63J-820X	MG R	82Ω 1/16W J
R009	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R101	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R102	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R103	QRE121J-101Y	C R	100Ω 1/2W J
R104	NRSA63J-180X	MG R	18Ω 1/16W J
R105	NRSA63J-270X	MG R	27Ω 1/16W J
R111	NRSA63J-394X	MG R	390kΩ 1/16W J
R112	NRSA63J-334X	MG R	330kΩ 1/16W J
R113	NRSA63J-101X	MG R	100Ω 1/16W J
R115	NRSA63J-101X	MG R	100Ω 1/16W J
R116	NRSA63J-680X	MG R	68Ω 1/16W J
R117	NRSA63J-273X	MG R	27kΩ 1/16W J
R118	NRSA63J-223X	MG R	22kΩ 1/16W J
R131	NRSA63J-102X	MG R	1kΩ 1/16W J
R132	NRSA63J-331X	MG R	330Ω 1/16W J
R133	NRSA63J-821X	MG R	820Ω 1/16W J
R134	NRSA63J-561X	MG R	560Ω 1/16W J
R135	NRSA63J-102X	MG R	1kΩ 1/16W J
R161	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R162	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R163	NRSA63J-223X	MG R	22kΩ 1/16W J
R164	NRSA63J-102X	MG R	1kΩ 1/16W J
R165	NRSA63J-223X	MG R	22kΩ 1/16W J
R166	NRSA63J-103X	MG R	10kΩ 1/16W J
R167	NRSA63J-102X	MG R	1kΩ 1/16W J
R168	NRSA63J-101X	MG R	100Ω 1/16W J
R169	NRSA63J-561X	MG R	560Ω 1/16W J
R171	NRSA63J-103X	MG R	10kΩ 1/16W J
R201	NRSA63J-223X	MG R	22kΩ 1/16W J
R212	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R215	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R216	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R217	NRSA63J-102X	MG R	1kΩ 1/16W J
R222	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R227	NRSA63J-104X	MG R	100kΩ 1/16W J
R231	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R237	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R238	NRSA63J-473X	MG R	47kΩ 1/16W J
R241	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R243	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R281	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R282	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R283	NRSA63J-681X	MG R	680Ω 1/16W J
R286	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R287	NRSA63J-101X	MG R	100Ω 1/16W J
R288	NRSA63J-471X	MG R	470Ω 1/16W J
R289	NRSA63J-154X	MG R	150kΩ 1/16W J
R290	NRSA63J-561X	MG R	560Ω 1/16W J
R292	NRSA63J-124X	MG R	120kΩ 1/16W J
R293	NRSA63J-224X	MG R	220kΩ 1/16W J
R301	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R302	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R303	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R304	NRSA63J-101X	MG R	100Ω 1/16W J
R305	NRSA63J-101X	MG R	100Ω 1/16W J
R306	NRSA63J-101X	MG R	100Ω 1/16W J
R354	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R355	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R356	NRSA63J-123X	MG R	12kΩ 1/16W J
R359	NRSA63J-103X	MG R	10kΩ 1/16W J
R360	NCB31HK-103X	C CAP.	0.01μF 50V K
R421	NRSA63J-822X	MG R	8.2kΩ 1/16W J
R423	NRSA63J-393X	MG R	39kΩ 1/16W J
R424	NRSA63J-393X	MG R	39kΩ 1/16W J
R426	NRSA63J-183X	MG R	18kΩ 1/16W J
R427	QRT029J-1R5	MF R	1.5Ω 2W J

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R432	NRSA63J-101X	MG R	100Ω 1/16W J
R433	NRSA63J-681X	MG R	680Ω 1/16W J
R434	QRL029J-181	OM R	180Ω 2W J
R435	QRE121J-102Y	C R	1kΩ 1/2W J
R441	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R447	NRSA63J-104X	MG R	100kΩ 1/16W J
R448	NRSA63J-473X	MG R	47kΩ 1/16W J
R449	NRSA63J-103X	MG R	10kΩ 1/16W J
R501	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R502	NRSA63J-271X	MG R	27Ω 1/16W J
R503	QRE121J-103Y	C R	10kΩ 1/2W J
R504	QRL029J-102	OM R	1kΩ 3W J
R505	QRL029J-102	OM R	1kΩ 3W J
R511	QRE121J-220Y	C R	22Ω 1/2W J
R512	QRE121J-681Y	C R	680Ω 1/2W J
R523	QRJ146J-333X	C R	33kΩ 1/4W J
R526	QRE121J-272Y	C R	2.7kΩ 1/2W J
R527	QRE121J-154Y	C R	150kΩ 1/2W J
R528	QRE121J-154Y	C R	150kΩ 1/2W J
R529	NRSA63J-331X	MG R	330Ω 1/16W J
R531	QRJ146J-391X	C R	390Ω 1/4W J
R532	NRSA63J-273X	MG R	27kΩ 1/16W J
R533	NRSA63J-123X	MG R	12kΩ 1/16W J
R534	NRSA63J-123X	MG R	12kΩ 1/16W J
Δ R535	NRVA02D-222X	MF R	2.2kΩ 1/10W D
Δ R537	NRVA02D-752X	MF R	7.5kΩ 1/10W D
R538	NRSA63J-333X	MG R	33kΩ 1/16W J
R543	QRE121J-122Y	C R	1.2kΩ 1/2W J
R544	QRE121J-392Y	C R	3.9kΩ 1/2W J
R545	QRE121J-822Y	C R	8.2kΩ 1/2W J
R546	NRSA63J-331X	MG R	330Ω 1/16W J
R547	NRSA63J-104X	MG R	100kΩ 1/16W J
R548	QRE121J-152Y	C R	1.5kΩ 1/2W J
R553	QRL029J-180	OM R	18Ω 3W J
Δ R554	QRK126J-150X	C R	15Ω 1/2W J
R555	QRX029J-3R3	MF R	3.3Ω 2W J
R601	NRSA63J-750X	MG R	75Ω 1/16W J
R602	NRSA63J-750X	MG R	75Ω 1/16W J
R603	NRSA63J-750X	MG R	75Ω 1/16W J
R614	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R615	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R621	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R622	NRSA63J-681X	MG R	680Ω 1/16W J
R623	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R624	NRSA63J-681X	MG R	680Ω 1/16W J
R626	NRSA63J-223X	MG R	22kΩ 1/16W J
R627	NRSA63J-223X	MG R	22kΩ 1/16W J
R631	NRSA63J-333X	MG R	33kΩ 1/16W J
R632	NRSA63J-223X	MG R	22kΩ 1/16W J
R638	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R639	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R651	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R652	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R653	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R655	NRSA63J-153X	MG R	15kΩ 1/16W J
R700	NRSA63J-102X	MG R	1kΩ 1/16W J
R701	NRSA63J-103X	MG R	10kΩ 1/16W J
R702	NRSA63J-102X	MG R	1kΩ 1/16W J
R704	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R705	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R706	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R707	NRSA63J-103X	MG R	10kΩ 1/16W J
R708	NRSA63J-101X	MG R	100Ω 1/16W J
R709	NRSA63J-101X	MG R	100Ω 1/16W J
R714	NRSA63J-823X	MG R	82kΩ 1/16W J
R715	NRSA63J-103X	MG R	10kΩ 1/16W J
R718	NRSA63J-223X	MG R	22kΩ 1/16W J
R721	NRSA63J-102X	MG R	1kΩ 1/16W J
R728	NRSA63J-102X	MG R	1kΩ 1/16W J
R729	NRSA63J-223X	MG R	22kΩ 1/16W J
R731	NRSA63J-101X	MG R	100Ω 1/16W J

## [ AV-32D503/Y ]

△ Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>			
R732	NRS463J-101X	MG R	100Ω 1/16W J
R733	NRS463J-472X	MG R	4.7kΩ 1/16W J
R734	NRS463J-472X	MG R	4.7kΩ 1/16W J
R737	NRS463J-472X	MG R	4.7kΩ 1/16W J
R739	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R740	NRS463J-103X	MG R	10kΩ 1/16W J
R754	NRS463J-472X	MG R	4.7kΩ 1/16W J
R755	NRS463J-153X	MG R	15kΩ 1/16W J
R756	NRS463J-103X	MG R	10kΩ 1/16W J
R764	NRS463J-221X	MG R	220Ω 1/16W J
R765	NRS463J-221X	MG R	220Ω 1/16W J
R766	NRS463J-221X	MG R	220Ω 1/16W J
R767	NRS463J-221X	MG R	220Ω 1/16W J
R769	NRS463J-682X	MG R	6.8kΩ 1/16W J
R772	NRS463J-103X	MG R	10kΩ 1/16W J
R775	NRS463J-473X	MG R	47kΩ 1/16W J
R776	NRS463J-103X	MG R	10kΩ 1/16W J
R811	NRS463J-473X	MG R	47kΩ 1/16W J
R812	NRS463J-102X	MG R	1kΩ 1/16W J
R816	NRS463J-124X	MG R	120kΩ 1/16W J
R821	NRS463J-184X	MG R	180kΩ 1/16W J
R822	NRS463J-124X	MG R	120kΩ 1/16W J
R827	NRS463J-102X	MG R	1kΩ 1/16W J
△ R855	QRG09J-100	OM R	10Ω 3W J
△ R857	QRL09J-330	OM R	33Ω 2W J
△ R858	QRL09J-390	OM R	39Ω 2W J
△ R901	QR074K-R47	UNF R	0.47Ω 7W K
△ R909	QRG01GJ-470	OM R	47Ω 1W J
R911	QRE121J-223Y	C R	22kΩ 1/2W J
R912	QRT09J-R22	MF R	0.22Ω 2W J
R913	QRT09J-R22	MF R	0.22Ω 2W J
R914	QRK126J-681X	C R	680Ω 1/2W J
R915	QRK129J-68R	C R	6.8Ω 1/2W J
R917	QRK126J-332X	C R	3.3kΩ 1/2W J
R918	QRE121J-222Y	C R	2.2kΩ 1/2W J
R919	QRE121J-684Y	C R	680kΩ 1/2W J
R924	QRE121J-222Y	C R	2.2kΩ 1/2W J
R930	QRE121J-223Y	C R	22kΩ 1/2W J
R939	QRT09J-2R2	MF R	2.2Ω 3W J
R940	QRE121J-181Y	C R	180Ω 1/2W J
R941	QRL09J-183	OM R	18kΩ 2W J
R950	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R951	NRS463J-473X	MG R	47kΩ 1/16W J
R952	NRS463J-102X	MG R	1kΩ 1/16W J
R953	QRE121J-820Y	C R	82Ω 1/2W J
R973	QRE121J-272Y	C R	2.7kΩ 1/2W J
R975	QRE121J-223Y	C R	22kΩ 1/2W J
R977	QRE121J-473Y	C R	47kΩ 1/2W J
R978	NRS463J-333X	MG R	33kΩ 1/16W J
R979	QRT09J-1R2	MF R	1.2Ω 2W J
R980	QRT09J-1R2	MF R	1.2Ω 2W J
△ R998	QRZ9041-275	C R	2.7MΩ 1/2W K
R999	QRE121J-121Y	C R	120Ω 1/2W J

**CAPACITOR**

C001	QETNLHM-475Z	E CAP.	4.7μF 50V M
C003	QETNLHM-106Z	E CAP.	10μF 50V M
C004	QETNLHM-108Z	E CAP.	1000μF 16V M
C006	QETNLEM-476Z	E CAP.	47μF 25V M
C101	NCB31HK-103X	C CAP.	0.01μF 50V K
C102	NCB31HK-103X	C CAP.	0.01μF 50V K
C104	NCB31HK-103X	C CAP.	0.01μF 50V K
C105	NCB31HK-103X	C CAP.	0.01μF 50V K
C106	QETNLEM-476Z	E CAP.	47μF 25V M
C107	NCB31HK-103X	C CAP.	0.01μF 50V K
C113	NCB31HK-103X	C CAP.	0.01μF 50V K
C114	NCB31HK-103X	C CAP.	0.01μF 50V K
C116	QFVFLHJ-224Z	MF CAP.	0.22μF 50V J
C117	QETNLEM-476Z	E CAP.	47μF 25V M
C118	NCB31HK-103X	C CAP.	0.01μF 50V K
C119	NDC31HJ-681X	C CAP.	680pF 50V J
C120	QETNLHM-474Z	E CAP.	0.47μF 50V M
C124	NCB31HK-103X	C CAP.	0.01μF 50V K
C131	NCB31HK-103X	C CAP.	0.01μF 50V K

△ Symbol No.	Part No.	Part Name	Description
<b>CAPACITOR</b>			
C161	QETNLHM-106Z	E CAP.	10μF 50V M
C163	NDC31HJ-470X	C CAP.	47pF 50V J
C164	NDC31HJ-470X	C CAP.	47pF 50V J
C165	NCB31HK-103X	C CAP.	0.01μF 50V K
C166	NCB31HK-103X	C CAP.	0.01μF 50V K
C202	QETNLHM-105Z	E CAP.	1μF 50V M
C203	NCB31HK-152X	C CAP.	1500pF 50V K
C211	QENCICM-106Z	E CAP.	10μF 16V M
C212	NDC31HJ-100X	C CAP.	10pF 50V J
C221	QETNLHM-106Z	E CAP.	10μF 50V M
C222	QFVFLHJ-104Z	MF CAP.	0.1μF 50V J
C223	NCB31HK-103X	C CAP.	0.01μF 50V K
C233	NDC31HJ-680X	C CAP.	68pF 50V J
C237	NCB31HK-103X	C CAP.	0.01μF 50V K
C241	NCB31HK-103X	C CAP.	0.01μF 50V K
C242	QETNLHM-225Z	E CAP.	2.2μF 50V M
C243	QETNLHM-107Z	E CAP.	100μF 16V M
C244	NCB31HK-103X	C CAP.	0.01μF 50V K
C281	QFVFLHJ-474Z	MF CAP.	0.47μF 50V J
C282	QETNLHM-107Z	E CAP.	100μF 16V M
C283	NCB31HK-103X	C CAP.	0.01μF 50V K
C284	QETNLHM-225Z	E CAP.	2.2μF 50V M
C285	NCB31HK-103X	C CAP.	0.01μF 50V K
C286	QETNLHM-106Z	E CAP.	10μF 50V M
C287	QETNLHM-107Z	E CAP.	100μF 16V M
C288	NCB31HK-103X	C CAP.	0.01μF 50V K
C352	QETNLHM-336Z	E CAP.	33μF 16V M
C354	NCB31HK-103X	C CAP.	0.01μF 50V K
C391	QETNLHM-107Z	E CAP.	100μF 16V M
C392	NCB31HK-103X	C CAP.	0.01μF 50V K
C422	QFLCZAJ-102Z	M CAP.	1000pF 100V J
C424	QETNLHM-107Z	E CAP.	100μF 35V M
C425	QETNLHM-477Z	E CAP.	470μF 35V M
C427	QETNLHM-105Z	E CAP.	1μF 50V M
C428	QETNLEM-228	E CAP.	2200μF 25V M
C431	QFLCZAJ-563Z	M CAP.	0.056μF 100V K
C432	QETNLEM-476Z	E CAP.	47μF 25V M
C433	QETNLEM-476Z	E CAP.	47μF 25V M
C435	NCB31HK-183X	C CAP.	0.018μF 50V K
C440	QCS32HJ-220Z	C CAP.	22pF 500V J
C501	QCB32HK-151Z	C CAP.	150pF 500V K
C502	QCB32HK-331Z	C CAP.	330pF 500V K
C503	QEHRLHM-105Z	E CAP.	1μF 160V M
C504	QEZ0203-107	E CAP.	100μF 160V M
C507	QEM6LHK-475Z	E CAP.	4.7μF 50V K
C508	QEM6LHK-475Z	E CAP.	4.7μF 50V K
△ C510	QFZ0200-53Z	MPP CAP.	5300pF 1.5kVH±3%
△ C510	or QFZ0196-53Z	MPP CAP.	5300pF 1.5kVH±3%
△ C513	QFZ0198-133	MPP CAP.	0.013μF 1.5kVH±3%
△ C514	QFP32GJ-183	PP CAP.	0.018μF 400V J
△ C515	QFZ0199-564	MPP CAP.	0.56μF 250V J
△ C515	or QFZ0197-564	MPP CAP.	0.56μF 250V J
C516	QCB32HK-561Z	C CAP.	560pF 500V K
C521	QETNLEM-106Z	E CAP.	10μF 250V M
C523	QEHRLHM-108Z	E CAP.	1000μF 35V M
C525	QETNLHM-107Z	E CAP.	100μF 35V M
C526	QFV21HJ-824Z	MF CAP.	0.82μF 50V J
C527	QFLCZAJ-103Z	M CAP.	0.01μF 100V J
C531	QCB32HK-102Z	C CAP.	1000pF 500V K
C533	QETNLHM-106Z	E CAP.	10μF 50V M
C601	QETNLEM-476Z	E CAP.	47μF 25V M
C602	QETNLEM-476Z	E CAP.	47μF 25V M
C603	QETNLEM-476Z	E CAP.	47μF 25V M
C604	NCB31EK-104X	C CAP.	0.1μF 25V K
C605	NCB31EK-104X	C CAP.	0.1μF 25V K
C606	NCB31EK-104X	C CAP.	0.1μF 25V K
C607	QETNLHM-477Z	E CAP.	470μF 10V M
C608	NCB31HK-103X	C CAP.	0.01μF 50V K
C609	QFVFLHJ-104Z	MF CAP.	0.1μF 50V J
C610	QFVFLHJ-104Z	MF CAP.	0.1μF 50V J
C611	QFVFLHJ-104Z	MF CAP.	0.1μF 50V J
C621	NCB31HK-102X	C CAP.	1000pF 50V K
C622	NCF21CZ-105X	C CAP.	1μF 16V Z
C623	NCB31HK-102X	C CAP.	1000pF 50V K
C624	NCF21CZ-105X	C CAP.	1μF 16V Z
C625	QETNLHM-107Z	E CAP.	100μF 16V M

## [ AV-32D503/Y ]

Symbol No.	Part No.	Part Name	Description
------------	----------	-----------	-------------

## CAPACITOR

C626	QETNLEM-108Z	E CAP.	1000µF 25V M
C627	QETNLEM-474Z	E CAP.	0.47µF 50V M
C628	QETNLEM-108Z	E CAP.	1000µF 25V M
C629	QETNLEM-108Z	E CAP.	1000µF 25V M
C636	QETNLEM-105Z	E CAP.	1µF 50V M
C637	QETNLEM-105Z	E CAP.	1µF 50V M
C652	NCB31EK-104X	C CAP.	0.1µF 25V K
C653	NCB31EK-104X	C CAP.	0.1µF 25V K
C654	NCB31EK-104X	C CAP.	0.1µF 25V K
C655	NCB31HK-103X	C CAP.	0.01µF 50V K
C656	NDC31HJ-150X	C CAP.	150pF 50V J
C657	NDC31HJ-150X	C CAP.	150pF 50V J
C658	NDC31HJ-150X	C CAP.	150pF 50V J
C700	NCB31HK-102X	C CAP.	1000pF 50V K
C701	QETNLEM-106Z	E CAP.	10µF 50V M
C702	QETNLEM-106Z	E CAP.	10µF 50V M
C703	QETNLEM-106Z	E CAP.	10µF 50V M
C704	QETNLEM-107Z	E CAP.	100µF 16V M
C705	NCB31HK-103X	C CAP.	0.01µF 50V K
C706	QETNLEM-105Z	E CAP.	1µF 50V M
C708	NDC31HJ-220X	C CAP.	22pF 50V J
C709	NDC31HJ-220X	C CAP.	22pF 50V J
C711	QETNLEM-107Z	E CAP.	100µF 16V M
C712	NCB31HK-103X	C CAP.	0.01µF 50V K
C716	QETNLEM-106Z	E CAP.	10µF 50V M
C721	NCB31HK-103X	C CAP.	0.01µF 50V K
C726	NDC31HJ-561X	C CAP.	560pF 50V J
C728	NCB31HK-103X	C CAP.	0.01µF 50V K
C807	QETNLEM-477Z	E CAP.	470µF 10V M
C813	NCB31HK-102X	C CAP.	1000pF 50V K
C815	NCB31HK-103X	C CAP.	0.01µF 50V K
C853	QETNLEM-227Z	E CAP.	220µF 16V M
C854	QETNLEM-227Z	E CAP.	220µF 16V M
C856	QETNLEM-227Z	E CAP.	220µF 16V M
C857	QETNLEM-477Z	E CAP.	470µF 16V M
△ C901	QFZ9072-104	MF CAP.	0.1µFAC275V K
△ C901	or QFZ9075-104	MPP CAP.	0.1µFAC275V M
△ C902	QFZ9072-473	MF CAP.	0.047µFAC275V K
△ C902	or QFZ9075-473	MPP CAP.	0.047µFAC275V M
△ C904	QCZ9054-102	C CAP.	1000pFAC250V Z
△ C905	QCZ9054-102	C CAP.	1000pFAC250V Z
△ C906	QCZ9054-102	C CAP.	1000pFAC250V Z
△ C907	QEZ0169-477	E CAP.	470µF 200V M
△ C908	QCZ9079-102	C CAP.	1000pFAC250V M
△ C908	or QCZ9054-102	C CAP.	1000pFAC250V Z
C912	QCZ0840-222	C CAP.	220pF 2kV K
C913	QFLCLHJ-471Z	M CAP.	470pF 50V J
C914	QETNLEM-107Z	E CAP.	100µF 50V M
C916	NDC31HJ-331X	C CAP.	330pF 50V J
C917	NCB31HK-182X	C CAP.	1800pF 50V K
C918	NCB31HK-104X	C CAP.	0.1µF 50V K
C919	QFP32GJ-103	PP CAP.	0.01µF 400V J
C931	QEZ0203-107	E CAP.	100µF 160V M
C933	QETNLEM-108Z	E CAP.	1000µF 16V M
C934	NDC31HJ-151X	C CAP.	150pF 50V J
C935	QETNLEM-108Z	E CAP.	1000µF 25V M
C937	QCZ0840-102	C CAP.	1000pF 2kV K
C938	QETNLEM-477Z	E CAP.	470µF 16V M
C939	QCB32HK-152Z	C CAP.	1500pF 500V K
C941	QCB32HK-102Z	C CAP.	1000pF 500V K
C942	QEHRLHM-105Z	E CAP.	1µF 50V M
C951	QETNLEM-477Z	E CAP.	470µF 25V M
C952	QETNLEM-227Z	E CAP.	220µF 16V M
C971	QETNLEM-107Z	E CAP.	100µF 16V M
C972	QETNLEM-476Z	E CAP.	47µF 25V M
△ C973	QETNLEM-106Z	E CAP.	10µF 50V M
△ C997	QCZ9052-102	C CAP.	1000pFAC125V M
△ C998	QCZ9074-103	C CAP.	0.01µFAC250V M
△ C999	QCZ9074-103	C CAP.	0.01µFAC250V M

## TRANSF

T111	QQR0907-001	IFT	
T501	CE42034-002	HOR DRIVE TRANS	
△ T502	QQH0121-001	FB TRANSF	
△ T921	QQS0138-001	SW TRANSF	
△ T951	QQT0372-001	POWER TRANSF	or QQT0355-001

Symbol No.	Part No.	Part Name	Description
------------	----------	-----------	-------------

## COIL

L001	QQL244K-560Z	COIL	56µH K
L101	QQL2014-R22	INDUCTOR	
L113	QQL244K-4R7Z	COIL	4.7µH K
L131	QQL244K-150Z	COIL	15µH K
L161	QQL244K-220Z	INDUCTOR	
L232	QQL244K-560Z	COIL	56µH K
L241	QQL244K-220Z	INDUCTOR	
L391	QQL244K-220Z	INDUCTOR	
△ L511	QQR1027-003	LINEARITY COIL	
△ L512	QQL2036-821	INDUCTOR	or QQL2027-821
△ L521	QQL2026-560	INDUCTOR	
L701	QQL244K-220Z	INDUCTOR	
L702	QQL244K-220Z	INDUCTOR	
L703	QQL244K-220Z	INDUCTOR	
L704	QQL244K-220Z	INDUCTOR	
L705	QQL244K-220Z	INDUCTOR	
L931	QQL26AK-470Z	COIL	47µH K
L933	QQL26AK-470Z	COIL	47µH K
L940	QQR0582-001Z	FERRITE BEADS	

## DIODE

D305	1SS133-T2	SI DIODE	
D306	1SS133-T2	SI DIODE	
D307	1SS133-T2	SI DIODE	
D308	1SS133-T2	SI DIODE	
D309	1SS133-T2	SI DIODE	
D310	1SS133-T2	SI DIODE	
D352	MTZJ9.1C-T2	Z DIODE	
D353	1SS133-T2	SI DIODE	
D354	MTZJ9.3A-T2	Z DIODE	
D421	1N4003-T2	SI DIODE	
D422	MTZJ75-T2	Z DIODE	
D432	1SS133-T2	SI DIODE	
D501	RH3G-F1	SI DIODE	
△ D502	RU30M-LFC4	SI DIODE	
D521	RH1S-T3	SI DIODE	
D523	RGP10J-5025-T3	SI DIODE	
D525	1SS81-T5	SI DIODE	
D526	1SS81-T5	SI DIODE	
D527	1SR124-400A-T2	SI DIODE	
D529	MTZJ5.1C-T2	Z DIODE	
△ D531	MA4068N/Z1/-T2	Z DIODE	
D535	1SS133-T2	SI DIODE	
D537	1SR35-400A-T2	SI DIODE	
D601	MTZJ9.1C-T2	Z DIODE	
D602	MTZJ9.1C-T2	Z DIODE	
D603	MTZJ9.1C-T2	Z DIODE	
D653	1SS133-T2	SI DIODE	
D654	1SS133-T2	SI DIODE	
D700	MTZJ5.6B-T2	Z DIODE	
D701	1SS133-T2	SI DIODE	
D703	MTZJ5.6B-T2	Z DIODE	
D704	MTZJ5.6B-T2	Z DIODE	
D705	1SS133-T2	SI DIODE	
D706	MTZJ5.6B-T2	Z DIODE	
D707	MTZJ5.6B-T2	Z DIODE	
D708	MTZJ5.6B-T2	Z DIODE	
D709	MTZJ5.6B-T2	Z DIODE	
D721	1SS133-T2	SI DIODE	
D722	1SS133-T2	SI DIODE	
D723	MTZJ5.6B-T2	Z DIODE	
D810	MTZJ5.6B-T2	Z DIODE	
△ D901	GS1B460-S1	BRIDGE DIODE	
D910	MA700A-T2	SB DIODE	
△ D911	RGP10J-5025-T3	SI DIODE	
△ D912	RGP10J-5025-T3	SI DIODE	
△ D913	RGP10J-5025-T3	SI DIODE	
D914	1SS133-T2	SI DIODE	
D915	SAR501-T2	SI DIODE	
D917	MTZJ30A-T2	Z DIODE	
D918	MTZJ5.1C-T2	Z DIODE	
D920	1SS133-T2	SI DIODE	
D931	RU30M-F1	SI DIODE	
D933	RU30M-LFC4	SI DIODE	
D935	RU30M-LFC4	SI DIODE	
D941	MTZJ33A-T2	Z DIODE	
D945	MTZJ9.1B-T2	Z DIODE	
D952	1SS133-T2	SI DIODE	
D953	1SS133-T2	SI DIODE	
D954	1N4002G-T2	SI DIODE	

[ AV-32D503/Y ]

△ Symbol No.	Part No.	Part Name	Description
<b>DIODE</b>			
D955	1N4002G-T2	SI DIODE	
D956	1N4002G-T2	SI DIODE	
D957	1N4002G-T2	SI DIODE	
D972	MTZJ15C-T2	Z DIODE	
D973	1SS133-T2	SI DIODE	
<b>TRANSISTOR</b>			
Q001	UN2212-X	DIGI TRANSISTOR	
Q101	2SC5083/L-P/-T	TRANSISTOR	
Q131	2SB709A/QR/-X	TRANSISTOR	
Q161	2SD601A/QR/-X	TRANSISTOR	
Q211	2SD601A/QR/-X	TRANSISTOR	
Q232	2SD601A/QR/-X	TRANSISTOR	
Q233	2SD601A/QR/-X	TRANSISTOR	
Q352	2SD601A/QR/-X	TRANSISTOR	
Q431	UN2212-X	DIGI TRANSISTOR	
Q501	2SC4212/Z1/	TRANSISTOR	
△ Q511	2SD2645-YD	POWER TRANSISTO	H. OUT
Q531	2SC2785/JH/-T	SI TRANSISTOR	
Q532	2SB709A/QR/-X	TRANSISTOR	
Q541	2SB709A/QR/-X	TRANSISTOR	
Q542	2SB709A/QR/-X	TRANSISTOR	
Q543	2SD1408/OY/-LB	POW TRANSISTOR	
Q622	2SD601A/QR/-X	TRANSISTOR	
Q623	UN2212-X	DIGI TRANSISTOR	
Q700	2SD601A/QR/-X	TRANSISTOR	
Q701	2SB709A/QR/-X	TRANSISTOR	
Q705	2SD601A/QR/-X	TRANSISTOR	
Q951	2SD1383K/AB/-X	TRANSISTOR	
Q971	2SA1208/ST/Z1-T	TRANSISTOR	
<b>IC</b>			
IC101	M52342SP	IC	
IC201	TM8812CSBNG3U68	IC	
△ IC421	LA7841	IC	
IC601	TA1287F-X	IC	
IC621	LA4485	IC	
IC702	AT24C08-32D503	IC	(SERVICE)
IC703	S-80840ANY-T	IC	
IC704	AN78L05-T	IC	
IC852	AN7809F	IC	or BA17809T
IC853	AN7805F	IC	or BA17805T
△ IC911	STR-G6624/F8	IC	
△ IC921	SE135N	IC	
<b>OTHERS</b>			
CF001	QAX0349-001	C TRAP	
CF131	QAX0339-001Z	C TRAP	
CF161	QAX0642-001Z	C FILTER	
CN001	QGB1505J1-35	B TO B CONNE	
CN002	QGB1505J1-25	B TO B CONNE	
CN004	QGA2501C5-05Z	W TO B CONNE	
CN005	QGA2501C5-04Z	W TO B CONNE	
CN007	QGA2501C5-07Z	W TO B CONNE	
△ CN044	QMPD390-200-JS	POWER CORD	or QMPD200-200-JC
△ CP932	ICP-N70-T	C PROTECTOR	
△ CP936	ICP-N70-T	C PROTECTOR	
△ F901	QMF0007-5R0J1	FUSE	5.0A or QMFS1U1-5R0-J8
△ F905	QMF2049-5R0Z-E	FUSE	5.0A
△ FC901	CEM002-001Z	FUSE CLIP	
△ FC902	CEM002-001Z	FUSE CLIP	
△ FR525	QRZ9017-4R7	F R	4.7 Ω 1/4W J
△ FR527	QRZ9011-470	F R	47Ω 1/2W J
J601	QNN0349-002	PIN JACK	
J810	QNS0001-001	JACK	
K401	QQR0621-002Z	FERRITE BEADS	
K912	QQR0582-001Z	FERRITE BEADS	
K916	QQR0582-001Z	FERRITE BEADS	
K917	QQR0582-001Z	FERRITE BEADS	
K918	QQR0582-001Z	FERRITE BEADS	
K931	QQR0582-001Z	FERRITE BEADS	
K932	QQR0582-001Z	FERRITE BEADS	
K933	QQR0621-002Z	FERRITE BEADS	
K935	QQR0582-001Z	FERRITE BEADS	
LC601	QQR1199-001	EMI FILTER	
LC602	QQR1199-001	EMI FILTER	
LC603	QQR1199-001	EMI FILTER	

△ Symbol No.	Part No.	Part Name	Description
<b>OTHERS</b>			
△ LF901	QQR1085-003	LINE FILTER	or QQR0527-003
△ PC921	TLP421F/D4-GR/	IC(PHOTO COUPLE	
△ RY951	QSK0086-001	RELAY	or QSK0130-001, QSK0085-001
△ S421	QSL4A13-C02	LEVER SWITCH	
△ SF101	QAX0723-001	SAW FILTER	
△ TH901	QAD0132-3R0	P THERMISTOR	
△ TU001	QAU0272-001	TUNER	
△ VA901	ERZV10V621CS	ZNR	
X701	QAX0717-001Z	CRYSTAL	

**CRT SOCKET P.W. BOARD ASS'Y (SGE-3004A-M2)**

△ Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>			
R3354	NRS463J-221X	MG R	22Ω 1/16W J
R3355	NRS463J-221X	MG R	22Ω 1/16W J
R3356	NRS463J-221X	MG R	22Ω 1/16W J
R3357	NRS463J-101X	MG R	10Ω 1/16W J
R3358	NRS463J-101X	MG R	10Ω 1/16W J
R3359	NRS463J-101X	MG R	10Ω 1/16W J
R3360	QRZ0111-152	C R	1.5kΩ 1/2W K
R3361	QRZ0111-152	C R	1.5kΩ 1/2W K
R3362	QRZ0111-152	C R	1.5kΩ 1/2W K
R3363	QRG029J-103	OM R	10kΩ 2W J
R3364	QRG029J-103	OM R	10kΩ 2W J
R3365	QRG029J-103	OM R	10kΩ 2W J
R3366	NRS463J-182X	MG R	1.8kΩ 1/16W J
R3367	NRS463J-182X	MG R	1.8kΩ 1/16W J
R3368	NRS463J-182X	MG R	1.8kΩ 1/16W J
R3372	NRS463J-221X	MG R	22Ω 1/16W J
R3373	NRS463J-221X	MG R	22Ω 1/16W J
R3374	NRS463J-221X	MG R	22Ω 1/16W J
R3375	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R3376	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R3377	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R3381	QRE121J-394Y	C R	390kΩ 1/2W J
R3391	NRS463J-152X	MG R	1.5kΩ 1/16W J
R3392	NRS463J-392X	MG R	3.9kΩ 1/16W J
R3393	NRS463J-102X	MG R	1kΩ 1/16W J
R3394	NRS463J-102X	MG R	1kΩ 1/16W J
R3395	NRS463J-102X	MG R	1kΩ 1/16W J

**CAPACITOR**

C3354	NDC31HJ-331X	C CAP.	330pF 50V J
C3355	NDC31HJ-331X	C CAP.	330pF 50V J
C3356	NDC31HJ-391X	C CAP.	390pF 50V J
C3357	QETN1CM-107Z	E CAP.	100μF 16V M
△ C3382	QCZ0121-102	C CAP.	1000pF 3kV Z
C3391	QETN1AM-227Z	E CAP.	220μF 10V M
C3392	NDC31HJ-101X	C CAP.	100pF 50V J

**COIL**

L3381	QQL244K-101Z	PEAKING COIL	
-------	--------------	--------------	--

**DIODE**

D3391	1SS133-T2	SI DIODE	
-------	-----------	----------	--

**TRANSISTOR**

Q3351	2SC4544-LB	POW TRANSISTOR	
Q3352	2SC4544-LB	POW TRANSISTOR	
Q3353	2SC4544-LB	POW TRANSISTOR	
Q3391	2SA933AS/QR/-T	TRANSISTOR	

**OTHERS**

CN3004	QJB003-054010	SIN ID C-B WIRE	
CN3005	WJA0027-002A	E-S ID WIRE	
△ SK3351	QNZ0537-001	CRT SOCKET	or QNZ0536-001

No. 51947

55

[ AV-32D503/Y ]

**PIP P.W. BOARD ASS'Y (SGE-4001A-M2)**

Refer to PARTS LIST in page 44 for this P.W. board

**AV SELECTOR P.W. BOARD ASS'Y (SGE-5001A-M2)**

Refer to PARTS LIST in page 45 for this P.W. board

**FRONT AV IN P.W. BOARD ASS'Y (SGE-6001A-M2)**

Refer to PARTS LIST in page 46 for this P.W. board

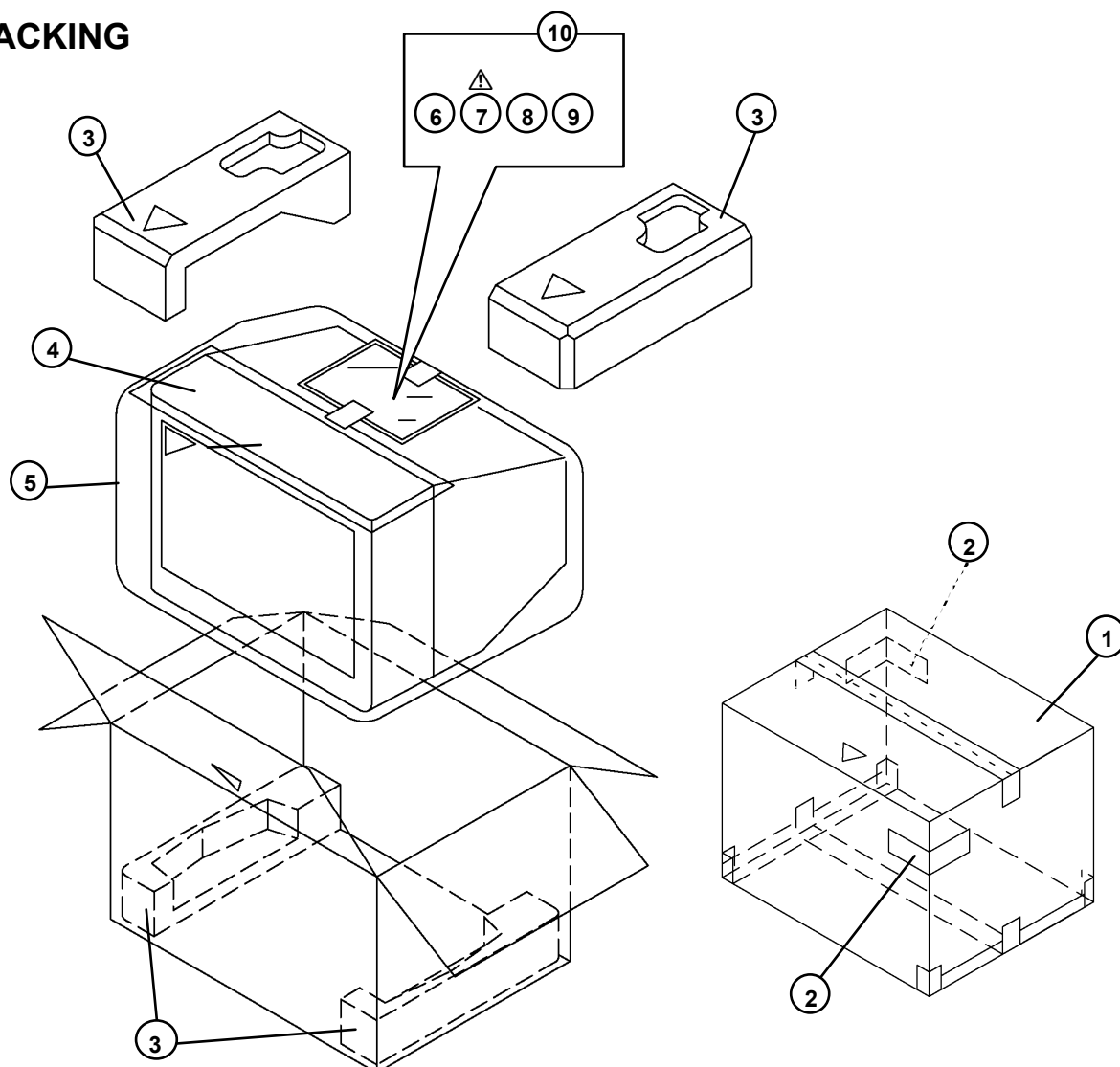
**FRONT CONTROL P.W. BOARD ASS'Y  
(SGE-7001A-M2)**

Refer to PARTS LIST in page 46 for this P.W. board



# [ AV-32D503 ]

## PACKING



## PACKING PARTS LIST

△ Ref.No.	Part No.	Part Name	Description
1	LC10058-009A	PACKING CASE	
2	CM36616-001-A	CORNER LABEL	2pcs in 1set
3	LC10365-001D	CUSHION ASSY	4pcs in 1set
4	CP30611-A02	TOP COVER	
5	AP3756-11	POLY COVER	
6	RM-C251-1H	REMOCON UNIT	
△ 7	LCT1128-001A-A	INST BOOK	
8	BT-51028-2Q	REGISTRATION CARD	
9	BT-52006-1	WARRANTY CARD	
10	QPA02503505	POLY BAG	

## REMOTE CONTROL UNIT PARTS LIST (RM-C251-1H)

△ Ref.No.	Part No.	Part Name	Description
	UR77EC0603	BATTERY COVER	

[ AV-32D303 / AV-32D203 ]

EXPLODED VIEW PARTS LIST

[ AV-32D303/M, AV-32D303/R, AV-32D303/Y ] : SILVER

△ Ref.No.	Part No.	Part Name	Description
△ V01	A80JUA061X06	ITC	[ AV-32D303/M ] Inc.DY.PC MAGNET,WEDGE
△ V01	A80AEJ15X01	ITC	[ AV-32D303/R ] Inc.DY.PC MAGNET,WEDGE
△ V01	A80AKB50X04	ITC	[ AV-32D303/Y ] Inc.DY.PC MAGNET,WEDGE
△ L01	CELD066-002JA	DEG COIL	
△ T502	QQH0121-001	FB TRANSF	
1	A48457-1	SPRING	
2	WJY0016-002A	E-BRAIDED ASSY	
3	WJY0013-004A	E-BRAIDED ASSY(SUB)	
△ 4	CEBSS12D-04KJ2	SPEAKER	or QAS0101-001(×2)SP01,SP02
△ 5	LC10883-001C-A	CHASSIS BASE	
△ 6	LC20899-004A-A	TERMINAL BOARD	
7	QYSBSB3010Z	TAP SCREW	(×4)
△ 9	LC20106-001D-A	POWER CORD CLAMP	
△ 10	QMPD390-200-JS	POWER CORD	or QMPD200-200-JC Within MAIN PWB(CNOPW)
△ 11	LC10308-003C-A	REAR COVER	
12	QYSBSFG4016Z	TAP SCREW	(×12)
△ 13	GQ30032-001A-A	RATING LABEL	
△ 14	GQ30034-001B-A	WARNING LABEL	
△ 15	LC30191-002A-A	REMOCON LENS	
△ 16	LC20217-005B-A	CONTROL KNOB	(SILVER)
17	CM48006-007-C	JVC MARK	(SILVER)
△ 100	LC10641-005B-A	FRONT CABI. ASSY	(SILVER) Inc.No.101~102
△ 101	LC20409-005B-A	DOOR	(SILVER)
△ 102	PU60109	CATCHER	

[ AV-32D203/M, AV-32D203/R, AV-32D203/Y ] : BLACK

△ Ref.No.	Part No.	Part Name	Description
△ V01	A80JUA061X06	ITC	[ AV-32D203/M ] Inc.DY.PC MAGNET,WEDGE
△ V01	A80AEJ15X01	ITC	[ AV-32D203/R ] Inc.DY.PC MAGNET,WEDGE
△ V01	A80AKB50X04	ITC	[ AV-32D203/Y ] Inc.DY.PC MAGNET,WEDGE
△ L01	CELD066-002JA	DEG COIL	
△ T502	QQH0121-001	FB TRANSF	
1	A48457-1	SPRING	
2	WJY0016-002A	E-BRAIDED ASSY	
3	WJY0013-004A	E-BRAIDED ASSY(SUB)	
△ 4	CEBSS12D-04KJ2	SPEAKER	or QAS0101-001(×2)SP01,SP02
△ 5	LC10883-001C-A	CHASSIS BASE	
△ 6	LC20899-004A-A	TERMINAL BOARD	
7	QYSBSB3010Z	TAP SCREW	(×4)
△ 9	LC20106-001D-A	POWER CORD CLAMP	
△ 10	QMPD390-200-JS	POWER CORD	or QMPD200-200-JC Within MAIN PWB(CNOPW)
△ 11	LC10308-003C-A	REAR COVER	
12	QYSBSFG4016Z	TAP SCREW	(×12)
△ 13	GQ30032-001A-A	RATING LABEL	
△ 14	GQ30034-001B-A	WARNING LABEL	
△ 15	LC30191-002A-A	REMOCON LENS	
△ 16	LC20217-001C-A	CONTROL KNOB	(BLACK)
17	CM48006-006-C	JVC MARK	(BLACK)
△ 100	LC10641-001G-A	FRONT CABI. ASSY	(BLACK) Inc.No.101~102
△ 101	LC20409-001D-A	DOOR	(BLACK)
△ 102	PU60109	CATCHER	



[ AV-32D303M, AV-32D203M ]

# PRINTED WIRING BOARD PARTS LIST

## MAIN P.W. BOARD ASS'Y (SGE-1027A-M2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R002	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R003	NRSA63J-101X	MG R	100Ω 1/16W J
R004	NRSA63J-101X	MG R	100Ω 1/16W J
R005	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R008	NRSA63J-820X	MG R	82Ω 1/16W J
R009	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R101	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R102	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R103	QRE121J-101Y	C R	100Ω 1/2W J
R104	NRSA63J-180X	MG R	18Ω 1/16W J
R105	NRSA63J-270X	MG R	27Ω 1/16W J
R111	NRSA63J-394X	MG R	390kΩ 1/16W J
R112	NRSA63J-334X	MG R	330kΩ 1/16W J
R113	NRSA63J-101X	MG R	100Ω 1/16W J
R115	NRSA63J-101X	MG R	100Ω 1/16W J
R116	NRSA63J-680X	MG R	68Ω 1/16W J
R117	NRSA63J-273X	MG R	27kΩ 1/16W J
R118	NRSA63J-223X	MG R	22kΩ 1/16W J
R131	NRSA63J-102X	MG R	1kΩ 1/16W J
R132	NRSA63J-331X	MG R	33Ω 1/16W J
R133	NRSA63J-821X	MG R	820Ω 1/16W J
R134	NRSA63J-561X	MG R	560Ω 1/16W J
R135	NRSA63J-102X	MG R	1kΩ 1/16W J
R161	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R162	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R163	NRSA63J-223X	MG R	22kΩ 1/16W J
R164	NRSA63J-102X	MG R	1kΩ 1/16W J
R165	NRSA63J-223X	MG R	22kΩ 1/16W J
R166	NRSA63J-103X	MG R	10kΩ 1/16W J
R167	NRSA63J-102X	MG R	1kΩ 1/16W J
R168	NRSA63J-101X	MG R	100Ω 1/16W J
R169	NRSA63J-561X	MG R	560Ω 1/16W J
R171	NRSA63J-103X	MG R	10kΩ 1/16W J
R201	NRSA63J-223X	MG R	22kΩ 1/16W J
R212	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R215	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R216	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R217	NRSA63J-102X	MG R	1kΩ 1/16W J
R222	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R227	NRSA63J-104X	MG R	100kΩ 1/16W J
R231	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R237	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R238	NRSA63J-473X	MG R	47kΩ 1/16W J
R241	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R243	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R281	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R282	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R283	NRSA63J-681X	MG R	680Ω 1/16W J
R286	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R287	NRSA63J-101X	MG R	100Ω 1/16W J
R288	NRSA63J-471X	MG R	470Ω 1/16W J
R289	NRSA63J-154X	MG R	150kΩ 1/16W J
R290	NRSA63J-561X	MG R	560Ω 1/16W J
R292	NRSA63J-124X	MG R	120kΩ 1/16W J
R293	NRSA63J-224X	MG R	220kΩ 1/16W J
R301	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R302	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R303	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R304	NRSA63J-101X	MG R	100Ω 1/16W J
R305	NRSA63J-101X	MG R	100Ω 1/16W J
R306	NRSA63J-101X	MG R	100Ω 1/16W J
R354	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R355	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R356	NRSA63J-123X	MG R	12kΩ 1/16W J
R359	NRSA63J-103X	MG R	10kΩ 1/16W J
R360	NCB31HK-103X	C CAP.	0.01μF 50V K
R421	NRSA63J-822X	MG R	8.2kΩ 1/16W J
R423	NRSA63J-393X	MG R	39kΩ 1/16W J
R424	NRSA63J-393X	MG R	39kΩ 1/16W J
R426	NRSA63J-183X	MG R	18kΩ 1/16W J

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R427	QRT029J-1R5	MF R	1.5Ω 1/2W J
R429	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R430	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R431	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R432	NRSA63J-101X	MG R	100Ω 1/16W J
R433	NRSA63J-681X	MG R	680Ω 1/16W J
R434	QRL029J-181	OM R	180Ω 1/2W J
R435	QRE121J-102Y	C R	1kΩ 1/2W J
R441	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R447	NRSA63J-104X	MG R	100kΩ 1/16W J
R448	NRSA63J-473X	MG R	47kΩ 1/16W J
R449	NRSA63J-103X	MG R	10kΩ 1/16W J
R501	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R502	NRSA63J-271X	MG R	27Ω 1/16W J
R503	QRE121J-103Y	C R	10kΩ 1/2W J
R504	QRL089J-102	OM R	1kΩ 1/2W J
R505	QRL089J-102	OM R	1kΩ 1/2W J
R511	QRE121J-220Y	C R	22Ω 1/2W J
R512	QRE121J-681Y	C R	680Ω 1/2W J
R523	QRJ146J-333X	C R	33kΩ 1/4W J
R526	QRE121J-272Y	C R	2.7kΩ 1/2W J
R527	QRE121J-154Y	C R	150kΩ 1/2W J
R528	QRE121J-154Y	C R	150kΩ 1/2W J
R529	NRSA63J-331X	MG R	33Ω 1/16W J
R531	QRJ146J-391X	C R	390Ω 1/4W J
R532	NRSA63J-273X	MG R	27kΩ 1/16W J
R533	NRSA63J-123X	MG R	12kΩ 1/16W J
R534	NRSA63J-123X	MG R	12kΩ 1/16W J
△ R535	NRVA02D-222X	MF R	2.2kΩ 1/10W D
△ R537	NRVA02D-752X	MF R	7.5kΩ 1/10W D
R538	NRSA63J-333X	MG R	33kΩ 1/16W J
R543	QRE121J-122Y	C R	1.2kΩ 1/2W J
R544	QRE121J-392Y	C R	3.9kΩ 1/2W J
R545	QRE121J-822Y	C R	8.2kΩ 1/2W J
R546	NRSA63J-331X	MG R	33Ω 1/16W J
R547	NRSA63J-104X	MG R	100kΩ 1/16W J
R548	QRE121J-152Y	C R	1.5kΩ 1/2W J
R553	QRL089J-180	OM R	18Ω 1/2W J
△ R554	QRK126J-150X	C R	15Ω 1/2W J
R555	QRX029J-3R3	MF R	3.3Ω 1/2W J
R601	NRSA63J-750X	MG R	75Ω 1/16W J
R602	NRSA63J-750X	MG R	75Ω 1/16W J
R603	NRSA63J-750X	MG R	75Ω 1/16W J
R610	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R611	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R612	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R621	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R622	NRSA63J-681X	MG R	680Ω 1/16W J
R623	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R624	NRSA63J-681X	MG R	680Ω 1/16W J
R626	NRSA63J-223X	MG R	22kΩ 1/16W J
R627	NRSA63J-223X	MG R	22kΩ 1/16W J
R631	NRSA63J-333X	MG R	33kΩ 1/16W J
R632	NRSA63J-223X	MG R	22kΩ 1/16W J
R638	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R639	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R651	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R652	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R653	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R700	NRSA63J-102X	MG R	1kΩ 1/16W J
R701	NRSA63J-103X	MG R	10kΩ 1/16W J
R702	NRSA63J-102X	MG R	1kΩ 1/16W J
R704	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R705	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R706	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R707	NRSA63J-103X	MG R	10kΩ 1/16W J
R708	NRSA63J-101X	MG R	100Ω 1/16W J
R709	NRSA63J-101X	MG R	100Ω 1/16W J
R715	NRSA63J-103X	MG R	10kΩ 1/16W J
R718	NRSA63J-223X	MG R	22kΩ 1/16W J

[ AV-32D303M, AV-32D203M ]

△ Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>			
R721	NRS463J-102X	MG R	1kΩ 1/16W J
R728	NRS463J-102X	MG R	1kΩ 1/16W J
R729	NRS463J-223X	MG R	22kΩ 1/16W J
R731	NRS463J-101X	MG R	100Ω 1/16W J
R732	NRS463J-101X	MG R	100Ω 1/16W J
R733	NRS463J-472X	MG R	4.7kΩ 1/16W J
R734	NRS463J-472X	MG R	4.7kΩ 1/16W J
R739	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R740	NRS463J-103X	MG R	10kΩ 1/16W J
R764	NRS463J-221X	MG R	220Ω 1/16W J
R765	NRS463J-221X	MG R	220Ω 1/16W J
R766	NRS463J-221X	MG R	220Ω 1/16W J
R767	NRS463J-221X	MG R	220Ω 1/16W J
R769	NRS463J-682X	MG R	6.8kΩ 1/16W J
R772	NRS463J-103X	MG R	10kΩ 1/16W J
R811	NRS463J-473X	MG R	47kΩ 1/16W J
R812	NRS463J-102X	MG R	1kΩ 1/16W J
R816	NRS463J-124X	MG R	120kΩ 1/16W J
R821	NRS463J-184X	MG R	180kΩ 1/16W J
R822	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R827	NRS463J-102X	MG R	1kΩ 1/16W J
R855	QRG089J-100	OM R	10Ω 3W J
△ R857	QRL029J-470	OM R	47Ω 2W J
△ R858	QRL029J-820	OM R	82Ω 2W J
△ R901	QRQ074K-R47	UNF R	0.47Ω 7W K
△ R909	QRG01GJ-470	OM R	47Ω 1W J
R911	QRE121J-223Y	C R	22kΩ 1/2W J
R912	QRT029J-R22	MF R	0.22Ω 2W J
R913	QRT029J-R22	MF R	0.22Ω 2W J
R914	QRK126J-681X	C R	680Ω 1/2W J
R915	QRK129J-6R8	C R	6.8Ω 1/2W J
R917	QRK126J-332X	C R	3.3kΩ 1/2W J
R918	QRE121J-222Y	C R	2.2kΩ 1/2W J
R919	QRE121J-684Y	C R	680kΩ 1/2W J
R924	QRE121J-222Y	C R	2.2kΩ 1/2W J
R930	QRE121J-223Y	C R	22kΩ 1/2W J
R939	QRT089J-2R2	MF R	2.2Ω 3W J
R940	QRE121J-181Y	C R	180Ω 1/2W J
R941	QRL029J-183	OM R	18kΩ 2W J
R950	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R951	NRS463J-473X	MG R	47kΩ 1/16W J
R952	NRS463J-102X	MG R	1kΩ 1/16W J
R953	QRE121J-820Y	C R	82Ω 1/2W J
R973	QRE121J-272Y	C R	2.7kΩ 1/2W J
R975	QRE121J-223Y	C R	22kΩ 1/2W J
R977	QRE121J-473Y	C R	47kΩ 1/2W J
R978	NRS463J-333X	MG R	33kΩ 1/16W J
R979	QRT029J-1R2	MF R	1.2Ω 2W J
R980	QRT029J-1R2	MF R	1.2Ω 2W J
△ R998	QRZ9041-275	C R	2.7kΩ 1/2W K
R999	QRE121J-121Y	C R	120Ω 1/2W J

**CAPACITOR**

C001	QETN1HM-475Z	E CAP.	4.7μF 50V M
C003	QETN1HM-106Z	E CAP.	10μF 50V M
C004	QETN1CM-108Z	E CAP.	1000μF 16V M
C006	QETN1EM-476Z	E CAP.	47μF 25V M
C101	NCB31HK-103X	C CAP.	0.01μF 50V K
C102	NCB31HK-103X	C CAP.	0.01μF 50V K
C104	NCB31HK-103X	C CAP.	0.01μF 50V K
C105	NCB31HK-103X	C CAP.	0.01μF 50V K
C106	QETN1EM-476Z	E CAP.	47μF 25V M
C107	NCB31HK-103X	C CAP.	0.01μF 50V K
C113	NCB31HK-103X	C CAP.	0.01μF 50V K
C114	NCB31HK-103X	C CAP.	0.01μF 50V K
C116	QFVFIHJ-224Z	MF CAP.	0.22μF 50V J
C117	QETN1EM-476Z	E CAP.	47μF 25V M
C118	NCB31HK-103X	C CAP.	0.01μF 50V K
C119	NDC31HJ-681X	C CAP.	680pF 50V J
C120	QETN1HM-474Z	E CAP.	0.47μF 50V M
C124	NCB31HK-103X	C CAP.	0.01μF 50V K
C131	NCB31HK-103X	C CAP.	0.01μF 50V K
C161	QETN1HM-106Z	E CAP.	10μF 50V M
C163	NDC31HJ-470X	C CAP.	47pF 50V J

△ Symbol No.	Part No.	Part Name	Description
<b>CAPACITOR</b>			
C164	NDC31HJ-470X	C CAP.	47pF 50V J
C165	NCB31HK-103X	C CAP.	0.01μF 50V K
C166	NCB31HK-103X	C CAP.	0.01μF 50V K
C202	QETN1HM-105Z	E CAP.	1μF 50V M
C203	NCB31HK-152X	C CAP.	1500pF 50V K
C211	QENCLCM-106Z	E CAP.	10μF 16V M
C212	NDC31HJ-100X	C CAP.	10pF 50V J
C221	QETN1HM-106Z	E CAP.	10μF 50V M
C222	QFVFIHJ-104Z	MF CAP.	0.1μF 50V J
C223	NCB31HK-103X	C CAP.	0.01μF 50V K
C233	NDC31HJ-680X	C CAP.	68pF 50V J
C237	NCB31HK-103X	C CAP.	0.01μF 50V K
C241	NCB31HK-103X	C CAP.	0.01μF 50V K
C242	QETN1HM-225Z	E CAP.	2.2μF 50V M
C243	QETN1CM-107Z	E CAP.	100μF 16V M
C244	NCB31HK-103X	C CAP.	0.01μF 50V K
C281	QFVFIHJ-474Z	MF CAP.	0.47μF 50V J
C282	QETN1CM-107Z	E CAP.	100μF 16V M
C283	NCB31HK-103X	C CAP.	0.01μF 50V K
C284	QETN1HM-225Z	E CAP.	2.2μF 50V M
C285	NCB31HK-103X	C CAP.	0.01μF 50V K
C286	QETN1HM-106Z	E CAP.	10μF 50V M
C287	QETN1CM-107Z	E CAP.	100μF 16V M
C288	NCB31HK-103X	C CAP.	0.01μF 50V K
C352	QETN1CM-336Z	E CAP.	33μF 16V M
C354	NCB31HK-103X	C CAP.	0.01μF 50V K
C391	QETN1CM-107Z	E CAP.	100μF 16V M
C392	NCB31HK-103X	C CAP.	0.01μF 50V K
C422	QFLC2AJ-102Z	M CAP.	1000pF 100V J
C424	QETN1VM-107Z	E CAP.	100μF 35V M
C425	QETN1VM-477Z	E CAP.	470μF 35V M
C427	QETN1HM-105Z	E CAP.	1μF 50V M
C428	QETN1EM-228	E CAP.	2200μF 25V M
C431	QFLC2AK-563Z	M CAP.	0.056μF 100V K
C432	QETN1EM-476Z	E CAP.	47μF 25V M
C433	QETN1EM-476Z	E CAP.	47μF 25V M
C435	NCB31HK-183X	C CAP.	0.018μF 50V K
C440	QCS32HJ-220Z	C CAP.	220pF 500V J
C501	QCB32HK-151Z	C CAP.	150pF 500V K
C502	QCB32HK-331Z	C CAP.	330pF 500V K
C503	QEHRCM-105Z	E CAP.	1μF 160V M
C504	QEZ0203-107	E CAP.	100pF 160V M
C507	QEM6LHK-475Z	E CAP.	4.7μF 50V K
C508	QEM6LHK-475Z	E CAP.	4.7μF 50V K
△ C510	QFZ0200-53Z	MPP CAP.	5300pF1.5kVH±3%
△ C510	or QFZ0196-53Z	MPP CAP.	5300pF1.5kVH±3%
△ C513	QFZ0198-133	MPP CAP.	0.013μF1.5kVH±3%
△ C514	QFP32GJ-183	PP CAP.	0.018μF 400V J
△ C515	QFZ0199-564	MPP CAP.	0.56μF 250V J
△ C515	or QFZ0197-564	MPP CAP.	0.56μF 250V J
C516	QCB32HK-561Z	C CAP.	560pF 500V K
C521	QETN2EM-106Z	E CAP.	10μF 250V M
C523	QEHRLVM-108Z	E CAP.	1000μF 35V M
C525	QETN1VM-107Z	E CAP.	100μF 35V M
C526	QFV21HJ-824Z	MF CAP.	0.82μF 50V J
C527	QFLC2AJ-103Z	M CAP.	0.01μF 100V J
C531	QCB32HK-102Z	C CAP.	1000pF 500V K
C533	QETN1HM-106Z	E CAP.	10μF 50V M
C601	QETN1EM-476Z	E CAP.	47μF 25V M
C602	QETN1EM-476Z	E CAP.	47μF 25V M
C603	QETN1EM-476Z	E CAP.	47μF 25V M
C609	QFVFIHJ-104Z	MF CAP.	0.1μF 50V J
C610	QFVFIHJ-104Z	MF CAP.	0.1μF 50V J
C611	QFVFIHJ-104Z	MF CAP.	0.1μF 50V J
C621	NCB31HK-102X	C CAP.	1000pF 50V K
C622	NCF21CZ-105X	C CAP.	1μF 16V Z
C623	NCB31HK-102X	C CAP.	1000pF 50V K
C624	NCF21CZ-105X	C CAP.	1μF 16V Z
C625	QETN1CM-107Z	E CAP.	100μF 16V M
C626	QETN1EM-108Z	E CAP.	1000μF 25V M
C627	QETN1HM-474Z	E CAP.	0.47μF 50V M
C628	QETN1EM-108Z	E CAP.	1000μF 25V M
C629	QETN1EM-108Z	E CAP.	1000μF 25V M
C636	QETN1HM-105Z	E CAP.	1μF 50V M
C637	QETN1HM-105Z	E CAP.	1μF 50V M
C700	NCB31HK-102X	C CAP.	1000pF 50V K

[ AV-32D303M, AV-32D203M ]

△ Symbol No.	Part No.	Part Name	Description
<b>CAPACITOR</b>			
C701	QETNLM-106Z	E CAP.	10 <sub>μ</sub> F 50V M
C702	QETNLM-106Z	E CAP.	10 <sub>μ</sub> F 50V M
C703	QETNLM-106Z	E CAP.	10 <sub>μ</sub> F 50V M
C704	QETNLM-107Z	E CAP.	100 <sub>μ</sub> F 16V M
C705	NCB31HK-103X	C CAP.	0.01 <sub>μ</sub> F 50V K
C706	QETNLM-105Z	E CAP.	1 <sub>μ</sub> F 50V M
C708	NDC31HJ-220X	C CAP.	220 <sub>μ</sub> F 50V J
C709	NDC31HJ-220X	C CAP.	220 <sub>μ</sub> F 50V J
C711	QETNLM-107Z	E CAP.	100 <sub>μ</sub> F 16V M
C712	NCB31HK-103X	C CAP.	0.01 <sub>μ</sub> F 50V K
C716	QETNLM-106Z	E CAP.	10 <sub>μ</sub> F 50V M
C728	NCB31HK-103X	C CAP.	0.01 <sub>μ</sub> F 50V K
C807	QETNLM-477Z	E CAP.	470 <sub>μ</sub> F 10V M
C813	NCB31HK-102X	C CAP.	1000 <sub>μ</sub> F 50V K
C815	NCB31HK-103X	C CAP.	0.01 <sub>μ</sub> F 50V K
C853	QETNLM-227Z	E CAP.	220 <sub>μ</sub> F 16V M
C854	QETNLM-227Z	E CAP.	220 <sub>μ</sub> F 16V M
C856	QETNLM-227Z	E CAP.	220 <sub>μ</sub> F 16V M
C857	QETNLM-477Z	E CAP.	470 <sub>μ</sub> F 16V M
△ C901	QFZ9072-104	MF CAP.	0.1 <sub>μ</sub> FAC275V K
△ C901	or QFZ9075-104	MPP CAP.	0.1 <sub>μ</sub> FAC275V K
△ C902	QFZ9072-473	MF CAP.	0.047 <sub>μ</sub> FAC275V K
△ C902	or QFZ9075-473		0.047 <sub>μ</sub> FAC275V M
△ C904	QCZ9054-102	C CAP.	1000 <sub>μ</sub> FAC250V Z
△ C905	QCZ9054-102	C CAP.	1000 <sub>μ</sub> FAC250V Z
△ C906	QCZ9054-102	C CAP.	1000 <sub>μ</sub> FAC250V Z
△ C907	QE20169-477	E CAP.	470 <sub>μ</sub> F 200V M
△ C908	or QCZ9054-102	C CAP.	1000 <sub>μ</sub> FAC250V Z
△ C908	QCZ9079-102	C CAP.	1000 <sub>μ</sub> FAC250V M
△ C912	QCZ0340-222	C CAP.	2200 <sub>μ</sub> F 2kV K
C913	QFLC1HJ-471Z	M CAP.	470 <sub>μ</sub> F 50V J
C914	QETNLM-107Z	E CAP.	100 <sub>μ</sub> F 50V M
C916	NDC31HJ-331X	C CAP.	330 <sub>μ</sub> F 50V J
C917	NCB31HK-182X	C CAP.	1800 <sub>μ</sub> F 50V K
C918	NCB31HK-104X	C CAP.	0.1 <sub>μ</sub> F 50V K
C919	QFP30GJ-103	PP CAP.	0.01 <sub>μ</sub> F 400V J
C931	QE20203-107	E CAP.	100 <sub>μ</sub> F 160V M
C933	QETNLM-108Z	E CAP.	1000 <sub>μ</sub> F 16V M
C934	NDC31HJ-151X	C CAP.	150 <sub>μ</sub> F 50V J
C935	QETNLM-108Z	E CAP.	1000 <sub>μ</sub> F 25V M
C937	QCZ0340-102	C CAP.	1000 <sub>μ</sub> F 2kV K
C938	QETNLM-477Z	E CAP.	470 <sub>μ</sub> F 16V M
C939	QCB32HK-152Z	C CAP.	1500 <sub>μ</sub> F 500V K
C941	QCB32HK-102Z	C CAP.	1000 <sub>μ</sub> F 500V K
C942	QEHRIHM-105Z	E CAP.	1 <sub>μ</sub> F 50V M
C951	QETNLM-477Z	E CAP.	470 <sub>μ</sub> F 25V M
C952	QETNLM-227Z	E CAP.	220 <sub>μ</sub> F 16V M
C971	QETNLM-107Z	E CAP.	100 <sub>μ</sub> F 16V M
C972	QETNLM-476Z	E CAP.	47 <sub>μ</sub> F 25V M
C973	QETNLM-106Z	E CAP.	10 <sub>μ</sub> F 50V M
△ C997	QCZ9052-102	C CAP.	1000 <sub>μ</sub> FAC125V M
△ C998	QCZ9074-103	C CAP.	0.01 <sub>μ</sub> FAC250V M
△ C999	QCZ9074-103	C CAP.	0.01 <sub>μ</sub> FAC250V M
<b>TRANSF</b>			
T111	QQR0907-001	IFT	
T501	CE42034-002	HOR DRIVE TRANS	
△ T502	QQH0121-001	FB TRANSF	
△ T921	QOS0138-001	SW TRANSF	
△ T951	QQT0372-001	POWER TRANSF	or QQT0355-001
<b>COIL</b>			
L001	QQL244K-560Z	COIL	56 <sub>μ</sub> H K
L101	QQL2014-R22	INDUCTOR	
L113	QQL244K-4R7Z	COIL	4.7 <sub>μ</sub> H K
L131	QQL244K-150Z	COIL	15 <sub>μ</sub> H K
L161	QQL244K-220Z	INDUCTOR	
L232	QQL244K-560Z	COIL	56 <sub>μ</sub> H K
L241	QQL244K-220Z	INDUCTOR	
L391	QQL244K-220Z	INDUCTOR	
△ L511	QQR1027-003	LINEARITY COIL	
△ L512	QQL2036-821	INDUCTOR	or QQL2027-821
△ L521	QQL2026-640	INDUCTOR	

△ Symbol No.	Part No.	Part Name	Description
<b>COIL</b>			
L701	QQL244K-220Z	INDUCTOR	
L702	QQL244K-220Z	INDUCTOR	
L703	QQL244K-220Z	INDUCTOR	
L704	QQL244K-220Z	INDUCTOR	
L705	QQL244K-220Z	INDUCTOR	
L931	QQL26AK-470Z	COIL	47 <sub>μ</sub> H K
L933	QQL26AK-470Z	COIL	47 <sub>μ</sub> H K
L940	QQR0582-001Z	FERRITE BEADS	
<b>DIODE</b>			
D305	1SS133-T2	SI DIODE	
D306	1SS133-T2	SI DIODE	
D307	1SS133-T2	SI DIODE	
D308	1SS133-T2	SI DIODE	
D309	1SS133-T2	SI DIODE	
D310	1SS133-T2	SI DIODE	
D352	MTZJ9-1C-T2	Z DIODE	
D353	1SS133-T2	SI DIODE	
D354	MTZJ3-3A-T2	Z DIODE	
D421	1N4003-T2	SI DIODE	
D422	MTZJ75-T2	Z DIODE	
D432	1SS133-T2	SI DIODE	
D501	RH3G-F1	SI DIODE	
△ D502	RU3M-LFC4	SI DIODE	
D521	RH15-T3	SI DIODE	
D523	RGP10J-5025-T3	SI DIODE	
D525	1SS81-T5	SI DIODE	
D526	1SS81-T5	SI DIODE	
D527	1SR124-400A-T2	SI DIODE	
D529	MTZJ5-1C-T2	Z DIODE	
△ D531	MA4068N/Z1/-T2	Z DIODE	
D535	1SS133-T2	SI DIODE	
D537	1SR35-400A-T2	SI DIODE	
D601	MTZJ9-1C-T2	Z DIODE	
D602	MTZJ9-1C-T2	Z DIODE	
D603	MTZJ9-1C-T2	Z DIODE	
D700	MTZJ5-6B-T2	Z DIODE	
D701	1SS133-T2	SI DIODE	
D703	MTZJ5-6B-T2	Z DIODE	
D704	MTZJ5-6B-T2	Z DIODE	
D705	1SS133-T2	SI DIODE	
D706	MTZJ5-6B-T2	Z DIODE	
D707	MTZJ5-6B-T2	Z DIODE	
D708	MTZJ5-6B-T2	Z DIODE	
D709	MTZJ5-6B-T2	Z DIODE	
D723	MTZJ5-6B-T2	Z DIODE	
D810	MTZJ5-6B-T2	Z DIODE	
△ D901	GS1B460-S1	BRIDGE DIODE	
D910	MA700A-T2	SB DIODE	
△ D911	RGP10J-5025-T3	SI DIODE	
△ D912	RGP10J-5025-T3	SI DIODE	
△ D913	RGP10J-5025-T3	SI DIODE	
D914	1SS133-T2	SI DIODE	
D915	SARS01-T2	SI DIODE	
D917	MTZJ30A-T2	Z DIODE	
D918	MTZJ5-1C-T2	Z DIODE	
D920	1SS133-T2	SI DIODE	
D931	RU30A-F1	SI DIODE	
D933	RU3YK-LFC4	SI DIODE	
D935	RU3YK-LFC4	SI DIODE	
D941	MTZJ33A-T2	Z DIODE	
D945	MTZJ9-1B-T2	Z DIODE	
D952	1SS133-T2	SI DIODE	
D953	1SS133-T2	SI DIODE	
D954	1N4002G-T2	SI DIODE	
D955	1N4002G-T2	SI DIODE	
D956	1N4002G-T2	SI DIODE	
D957	1N4002G-T2	SI DIODE	
D972	MTZJ15C-T2	Z DIODE	
D973	1SS133-T2	SI DIODE	
<b>TRANSISTOR</b>			
Q001	UN2212-X	DIGI TRANSISTOR	
Q101	2SC5083/L-P/-T	TRANSISTOR	
Q131	2SB709A/QR/-X	TRANSISTOR	
Q161	2SD601A/QR/-X	TRANSISTOR	
Q211	2SD601A/QR/-X	TRANSISTOR	

[ AV-32D303/M, AV-32D203/M ]

△ Symbol No.	Part No.	Part Name	Description
<b>TRANSISTOR</b>			
Q232	2SD601A/QR/-X	TRANSISTOR	
Q233	2SD601A/QR/-X	TRANSISTOR	
Q352	2SD601A/QR/-X	TRANSISTOR	
Q431	UN2212-X	DIGI TRANSISTOR	
Q501	2SC4212/Z1/	TRANSISTOR	
△ Q511	2SD2645-YD	POWER TRANSISTO	H. OUT
Q531	2SC2785/JH/-T	SI TRANSISTOR	
Q532	2SB709A/QR/-X	TRANSISTOR	
Q541	2SB709A/QR/-X	TRANSISTOR	
Q542	2SB709A/QR/-X	TRANSISTOR	
Q543	2SD1408/OY/-LB	POW TRANSISTOR	
Q622	2SD601A/QR/-X	TRANSISTOR	
Q623	UN2212-X	DIGI TRANSISTOR	
Q701	2SB709A/QR/-X	TRANSISTOR	
Q951	2SD1383K/AB/-X	TRANSISTOR	
Q971	2SA1208/ST/Z1-T	TRANSISTOR	

<b>IC</b>			
IC101	M52342SP	IC	
IC201	TH8812CSBNG3U68	IC	
△ IC421	LA7841	IC	
IC621	LA4485	IC	
IC702	AT24C08-32D503	IC	(SERVICE)
IC703	S-80840ANY-T	IC	
IC704	AN78L05-T	IC	
IC852	AN7809F	IC	or BA17809T
IC853	AN7805F	IC	or BA17805T
△ IC911	STR-G6624/F8	IC	
△ IC921	SE135N	IC	

<b>OTHERS</b>			
CF001	QAX0349-001	C TRAP	
CF131	QAX0639-001Z	C TRAP	
CF161	QAX0642-001Z	C FILTER	
CN001	QGB1505J1-35	B TO B CONNE	
CN004	QGA2501C5-05Z	W TO B CONNE	
CN005	QGA2501C5-04Z	W TO B CONNE	
CN007	QGA2501C5-07Z	W TO B CONNE	
△ CN0PM	QMPD390-200-JS	POWER CORD	or QMPD200-200-JC
△ CP932	ICP-N70-T	C PROTECTOR	
△ CP936	ICP-N70-T	C PROTECTOR	
△ F901	QMF0007-5R0J1	FUSE	5.0A or QMF51U1-5R0-J8
△ F905	QMF2049-5R0Z-E	FUSE	5.0A
FC901	CEM0002-001Z	FUSE CLIP	
FC902	CEM0002-001Z	FUSE CLIP	
△ FR525	QRZ9017-4R7	F R	4.7 Ω 1/4W J
△ FR527	QRZ9011-470	F R	47Ω 1/2W J
J601	QNN0349-002	PIN JACK	
J810	QNS0001-001	JACK	
K401	QQR0621-002Z	FERRITE BEADS	
K912	QQR0582-001Z	FERRITE BEADS	
K916	QQR0582-001Z	FERRITE BEADS	
K917	QQR0582-001Z	FERRITE BEADS	
K918	QQR0582-001Z	FERRITE BEADS	
K931	QQR0582-001Z	FERRITE BEADS	
K932	QQR0582-001Z	FERRITE BEADS	
K933	QQR0621-002Z	FERRITE BEADS	
K935	QQR0582-001Z	FERRITE BEADS	
LC601	QQR1199-001	EMI FILTER	
LC602	QQR1199-001	EMI FILTER	
LC603	QQR1199-001	EMI FILTER	
△ LF901	QQR1085-003	LINE FILTER	or QQR0527-003
△ PC921	TLP421F/D4-GV	IC(PHOTO COUPLE	
△ RY951	QSK0086-001	RELAY	or QSK0130-001, QSK0085-001
S421	QSL4A13-C02	LEVER SWITCH	
SF101	QAX0723-001	SAW FILTER	
△ TH901	QAD0132-3R0	P THERMISTOR	
△ TU001	QAU0274-001	TUNER	
△ VA901	ERZV10V621CS	ZNR	
X701	QAX0717-001Z	CRYSTAL	

**CRT SOCKET P.W. BOARD ASS'Y (SGE-3006A-M2)**

Refer to PARTS LIST in page 43 for this P.W. board

**AV SELECTOR P.W. BOARD ASS'Y (SGE-5001A-M2)**

Refer to PARTS LIST in page 45 for this P.W. board

**FRONT AV IN P.W. BOARD ASS'Y (SGE-6001A-M2)**

Refer to PARTS LIST in page 46 for this P.W. board

**FRONT CONTROL P.W. BOARD ASS'Y (SGE-7001A-M2)**

Refer to PARTS LIST in page 46 for this P.W. board

[ AV-32D303/R, AV-32D203/R ]

# PRINTED WIRING BOARD PARTS LIST

## MAIN P.W. BOARD ASS'Y (SGE-1028A-M2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R002	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R003	NRSA63J-101X	MG R	100Ω 1/16W J
R004	NRSA63J-101X	MG R	100Ω 1/16W J
R005	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R008	NRSA63J-820X	MG R	82Ω 1/16W J
R009	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R101	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R102	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R103	QRE121J-101Y	C R	100Ω 1/2W J
R104	NRSA63J-180X	MG R	18Ω 1/16W J
R105	NRSA63J-270X	MG R	27Ω 1/16W J
R111	NRSA63J-394X	MG R	390kΩ 1/16W J
R112	NRSA63J-334X	MG R	330kΩ 1/16W J
R113	NRSA63J-101X	MG R	100Ω 1/16W J
R115	NRSA63J-101X	MG R	100Ω 1/16W J
R116	NRSA63J-680X	MG R	68Ω 1/16W J
R117	NRSA63J-273X	MG R	27kΩ 1/16W J
R118	NRSA63J-223X	MG R	22kΩ 1/16W J
R131	NRSA63J-102X	MG R	1kΩ 1/16W J
R132	NRSA63J-331X	MG R	330Ω 1/16W J
R133	NRSA63J-821X	MG R	820Ω 1/16W J
R134	NRSA63J-561X	MG R	560Ω 1/16W J
R135	NRSA63J-102X	MG R	1kΩ 1/16W J
R161	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R162	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R163	NRSA63J-223X	MG R	22kΩ 1/16W J
R164	NRSA63J-102X	MG R	1kΩ 1/16W J
R165	NRSA63J-223X	MG R	22kΩ 1/16W J
R166	NRSA63J-103X	MG R	10kΩ 1/16W J
R167	NRSA63J-102X	MG R	1kΩ 1/16W J
R168	NRSA63J-101X	MG R	100Ω 1/16W J
R169	NRSA63J-561X	MG R	560Ω 1/16W J
R171	NRSA63J-103X	MG R	10kΩ 1/16W J
R201	NRSA63J-223X	MG R	22kΩ 1/16W J
R212	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R215	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R216	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R217	NRSA63J-102X	MG R	1kΩ 1/16W J
R222	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R227	NRSA63J-104X	MG R	100kΩ 1/16W J
R231	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R237	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R238	NRSA63J-473X	MG R	47kΩ 1/16W J
R241	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R243	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R281	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R282	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R283	NRSA63J-681X	MG R	680Ω 1/16W J
R286	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R287	NRSA63J-101X	MG R	100Ω 1/16W J
R288	NRSA63J-471X	MG R	470Ω 1/16W J
R289	NRSA63J-154X	MG R	150kΩ 1/16W J
R290	NRSA63J-561X	MG R	560Ω 1/16W J
R292	NRSA63J-124X	MG R	120kΩ 1/16W J
R293	NRSA63J-224X	MG R	220kΩ 1/16W J
R301	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R302	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R303	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R304	NRSA63J-101X	MG R	100Ω 1/16W J
R305	NRSA63J-101X	MG R	100Ω 1/16W J
R306	NRSA63J-101X	MG R	100Ω 1/16W J
R354	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R355	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R356	NRSA63J-123X	MG R	12kΩ 1/16W J
R359	NRSA63J-103X	MG R	10kΩ 1/16W J
R360	NCB31HK-103X	C CAP.	0.01μF 50V K
R421	NRSA63J-822X	MG R	8.2kΩ 1/16W J
R423	NRSA63J-393X	MG R	39kΩ 1/16W J
R424	NRSA63J-393X	MG R	39kΩ 1/16W J
R426	NRSA63J-183X	MG R	18kΩ 1/16W J

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R427	QRT029J-1R5	MF R	1.5Ω 1/2W J
R429	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R430	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R431	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R432	NRSA63J-101X	MG R	100Ω 1/16W J
R433	NRSA63J-681X	MG R	680Ω 1/16W J
R434	QRL029J-181	OM R	180Ω 1/2W J
R435	QRE121J-102Y	C R	1kΩ 1/2W J
R441	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R447	NRSA63J-104X	MG R	100kΩ 1/16W J
R448	NRSA63J-473X	MG R	47kΩ 1/16W J
R449	NRSA63J-103X	MG R	10kΩ 1/16W J
R501	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R502	NRSA63J-271X	MG R	27Ω 1/16W J
R503	QRE121J-103Y	C R	10kΩ 1/2W J
R504	QRL089J-102	OM R	1kΩ 1/2W J
R505	QRL089J-102	OM R	1kΩ 1/2W J
R511	QRE121J-220Y	C R	22Ω 1/2W J
R512	QRE121J-681Y	C R	680Ω 1/2W J
R523	QRJ146J-333X	C R	33kΩ 1/4W J
R526	QRE121J-272Y	C R	2.7kΩ 1/2W J
R527	QRE121J-154Y	C R	150kΩ 1/2W J
R528	QRE121J-154Y	C R	150kΩ 1/2W J
R529	NRSA63J-331X	MG R	330Ω 1/16W J
R531	QRJ146J-391X	C R	390Ω 1/4W J
R532	NRSA63J-273X	MG R	27kΩ 1/16W J
R533	NRSA63J-123X	MG R	12kΩ 1/16W J
R534	NRSA63J-123X	MG R	12kΩ 1/16W J
△ R535	NRVA02D-222X	MF R	2.2kΩ 1/10W D
△ R537	NRVA02D-752X	MF R	7.5kΩ 1/10W D
R538	NRSA63J-333X	MG R	330Ω 1/16W J
R543	QRE121J-122Y	C R	1.2kΩ 1/2W J
R544	QRE121J-392Y	C R	3.9kΩ 1/2W J
R545	QRE121J-822Y	C R	8.2kΩ 1/2W J
R546	NRSA63J-331X	MG R	330Ω 1/16W J
R547	NRSA63J-104X	MG R	100kΩ 1/16W J
R548	QRE121J-152Y	C R	1.5kΩ 1/2W J
R553	QRL089J-180	OM R	18Ω 1/2W J
△ R554	QRK126J-150X	C R	15Ω 1/2W J
R555	QRX029J-3R3	MF R	3.3Ω 1/2W J
R601	NRSA63J-750X	MG R	75Ω 1/16W J
R602	NRSA63J-750X	MG R	75Ω 1/16W J
R603	NRSA63J-750X	MG R	75Ω 1/16W J
R610	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R611	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R612	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R621	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R622	NRSA63J-681X	MG R	680Ω 1/16W J
R623	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R624	NRSA63J-681X	MG R	680Ω 1/16W J
R626	NRSA63J-223X	MG R	22kΩ 1/16W J
R627	NRSA63J-223X	MG R	22kΩ 1/16W J
R631	NRSA63J-333X	MG R	33kΩ 1/16W J
R632	NRSA63J-223X	MG R	22kΩ 1/16W J
R638	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R639	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R651	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R652	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R653	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R700	NRSA63J-102X	MG R	1kΩ 1/16W J
R701	NRSA63J-103X	MG R	10kΩ 1/16W J
R702	NRSA63J-102X	MG R	1kΩ 1/16W J
R704	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R705	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R706	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R707	NRSA63J-103X	MG R	10kΩ 1/16W J
R708	NRSA63J-101X	MG R	100Ω 1/16W J
R709	NRSA63J-101X	MG R	100Ω 1/16W J
R715	NRSA63J-103X	MG R	10kΩ 1/16W J
R718	NRSA63J-223X	MG R	22kΩ 1/16W J



[ AV-32D303/R, AV-32D203/R ]

△ Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>			
R721	NRS463J-102X	MG R	1kΩ 1/16W J
R728	NRS463J-102X	MG R	1kΩ 1/16W J
R729	NRS463J-223X	MG R	22kΩ 1/16W J
R731	NRS463J-101X	MG R	100Ω 1/16W J
R732	NRS463J-101X	MG R	100Ω 1/16W J
R733	NRS463J-472X	MG R	4.7kΩ 1/16W J
R734	NRS463J-472X	MG R	4.7kΩ 1/16W J
R739	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R740	NRS463J-103X	MG R	10kΩ 1/16W J
R764	NRS463J-221X	MG R	220Ω 1/16W J
R765	NRS463J-221X	MG R	220Ω 1/16W J
R766	NRS463J-221X	MG R	220Ω 1/16W J
R767	NRS463J-221X	MG R	220Ω 1/16W J
R769	NRS463J-682X	MG R	6.8kΩ 1/16W J
R772	NRS463J-103X	MG R	10kΩ 1/16W J
R811	NRS463J-473X	MG R	47kΩ 1/16W J
R812	NRS463J-102X	MG R	1kΩ 1/16W J
R816	NRS463J-124X	MG R	120kΩ 1/16W J
R821	NRS463J-184X	MG R	180kΩ 1/16W J
R822	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R827	NRS463J-102X	MG R	1kΩ 1/16W J
R855	QRG089J-100	OM R	10Ω 3W J
△ R857	QRL029J-470	OM R	47Ω 2W J
△ R858	QRL029J-820	OM R	82Ω 2W J
△ R901	QR074K-R47	UNF R	0.47Ω 7W K
△ R909	QRG01GJ-470	OM R	47Ω 1W J
R911	QRE121J-223Y	C R	22kΩ 1/2W J
R912	QRT029J-R22	MF R	0.22Ω 2W J
R913	QRT029J-R22	MF R	0.22Ω 2W J
R914	QRK126J-681X	C R	680Ω 1/2W J
R915	QRK129J-6R8	C R	6.8Ω 1/2W J
R917	QRK126J-332X	C R	3.3kΩ 1/2W J
R918	QRE121J-222Y	C R	2.2kΩ 1/2W J
R919	QRE121J-684Y	C R	680kΩ 1/2W J
R924	QRE121J-222Y	C R	2.2kΩ 1/2W J
R930	QRE121J-223Y	C R	22kΩ 1/2W J
R939	QRT089J-2R2	MF R	2.2Ω 3W J
R940	QRE121J-181Y	C R	180Ω 1/2W J
R941	QRL029J-183	OM R	18kΩ 2W J
R950	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R951	NRS463J-473X	MG R	47kΩ 1/16W J
R952	NRS463J-102X	MG R	1kΩ 1/16W J
R953	QRE121J-820Y	C R	82Ω 1/2W J
R973	QRE121J-272Y	C R	2.7kΩ 1/2W J
R975	QRE121J-223Y	C R	22kΩ 1/2W J
R977	QRE121J-473Y	C R	47kΩ 1/2W J
R978	NRS463J-333X	MG R	33kΩ 1/16W J
R979	QRT029J-1R2	MF R	1.2Ω 2W J
R980	QRT029J-1R2	MF R	1.2Ω 2W J
△ R998	QRZ9041-275	C R	2.7kΩ 1/2W K
R999	QRE121J-121Y	C R	120Ω 1/2W J

**CAPACITOR**

C001	QETN1HM-475Z	E CAP.	4.7μF 50V M
C003	QETN1HM-106Z	E CAP.	10μF 50V M
C004	QETN1CM-108Z	E CAP.	1000μF 16V M
C006	QETN1EM-476Z	E CAP.	47μF 25V M
C101	NCB31HK-103X	C CAP.	0.01μF 50V K
C102	NCB31HK-103X	C CAP.	0.01μF 50V K
C104	NCB31HK-103X	C CAP.	0.01μF 50V K
C105	NCB31HK-103X	C CAP.	0.01μF 50V K
C106	QETN1EM-476Z	E CAP.	47μF 25V M
C107	NCB31HK-103X	C CAP.	0.01μF 50V K
C113	NCB31HK-103X	C CAP.	0.01μF 50V K
C114	NCB31HK-103X	C CAP.	0.01μF 50V K
C116	QFVFIHJ-224Z	MF CAP.	0.22μF 50V J
C117	QETN1EM-476Z	E CAP.	47μF 25V M
C118	NCB31HK-103X	C CAP.	0.01μF 50V K
C119	NDC31HJ-681X	C CAP.	680pF 50V J
C120	QETN1HM-474Z	E CAP.	0.47μF 50V M
C124	NCB31HK-103X	C CAP.	0.01μF 50V K
C131	NCB31HK-103X	C CAP.	0.01μF 50V K
C161	QETN1HM-106Z	E CAP.	10μF 50V M
C163	NDC31HJ-470X	C CAP.	47pF 50V J

△ Symbol No.	Part No.	Part Name	Description
<b>CAPACITOR</b>			
C164	NDC31HJ-470X	C CAP.	47pF 50V J
C165	NCB31HK-103X	C CAP.	0.01μF 50V K
C166	NCB31HK-103X	C CAP.	0.01μF 50V K
C202	QETN1HM-105Z	E CAP.	1μF 50V M
C203	NCB31HK-152X	C CAP.	1500pF 50V K
C211	QENCLCM-106Z	E CAP.	10μF 16V M
C212	NDC31HJ-100X	C CAP.	10pF 50V J
C221	QETN1HM-106Z	E CAP.	10μF 50V M
C222	QFVFIHJ-104Z	MF CAP.	0.1μF 50V J
C223	NCB31HK-103X	C CAP.	0.01μF 50V K
C233	NDC31HJ-680X	C CAP.	68pF 50V J
C237	NCB31HK-103X	C CAP.	0.01μF 50V K
C241	NCB31HK-103X	C CAP.	0.01μF 50V K
C242	QETN1HM-225Z	E CAP.	2.2μF 50V M
C243	QETN1CM-107Z	E CAP.	100μF 16V M
C244	NCB31HK-103X	C CAP.	0.01μF 50V K
C281	QFVFIHJ-474Z	MF CAP.	0.47μF 50V J
C282	QETN1CM-107Z	E CAP.	100μF 16V M
C283	NCB31HK-103X	C CAP.	0.01μF 50V K
C284	QETN1HM-225Z	E CAP.	2.2μF 50V M
C285	NCB31HK-103X	C CAP.	0.01μF 50V K
C286	QETN1HM-106Z	E CAP.	10μF 50V M
C287	QETN1CM-107Z	E CAP.	100μF 16V M
C288	NCB31HK-103X	C CAP.	0.01μF 50V K
C352	QETN1CM-336Z	E CAP.	33μF 16V M
C354	NCB31HK-103X	C CAP.	0.01μF 50V K
C391	QETN1CM-107Z	E CAP.	100μF 16V M
C392	NCB31HK-103X	C CAP.	0.01μF 50V K
C422	QFLC2AJ-102Z	M CAP.	1000pF 100V J
C424	QETN1VM-107Z	E CAP.	100μF 35V M
C425	QETN1VM-477Z	E CAP.	470μF 35V M
C427	QETN1HM-105Z	E CAP.	1μF 50V M
C428	QETN1EM-228	E CAP.	2200μF 25V M
C431	QFLC2AK-563Z	M CAP.	0.056μF 100V K
C432	QETN1EM-476Z	E CAP.	47μF 25V M
C433	QETN1EM-476Z	E CAP.	47μF 25V M
C435	NCB31HK-183X	C CAP.	0.018μF 50V K
C440	QCS32HJ-220Z	C CAP.	220pF 500V J
C501	QCB32HK-151Z	C CAP.	150pF 500V K
C502	QCB32HK-331Z	C CAP.	330pF 500V K
C503	QEHRCM-105Z	E CAP.	1μF 160V M
C504	QEZ0203-107	E CAP.	100μF 160V M
C507	QEM6LHK-475Z	E CAP.	4.7μF 50V K
C508	QEM6LHK-475Z	E CAP.	4.7μF 50V K
△ C510	QFZ0200-53Z	MPP CAP.	5300pF1.5kVH±3%
△ C510	or QFZ0196-53Z	MPP CAP.	5300pF1.5kVH±3%
△ C513	QFZ0198-133	MPP CAP.	0.013μF1.5kVH±3%
△ C514	QFP32GJ-183	PP CAP.	0.018μF 400V J
△ C515	QFZ0199-564	MPP CAP.	0.56μF 250V J
△ C515	or QFZ0197-564	MPP CAP.	0.56μF 250V J
C516	QCB32HK-561Z	C CAP.	560pF 500V K
C521	QETN2EM-106Z	E CAP.	10μF 250V M
C523	QEHRLVM-108Z	E CAP.	1000μF 35V M
C525	QETN1VM-107Z	E CAP.	100μF 35V M
C526	QFV21HJ-824Z	MF CAP.	0.82μF 50V J
C527	QFLC2AJ-103Z	M CAP.	0.01μF 100V J
C531	QCB32HK-102Z	C CAP.	1000pF 500V K
C533	QETN1HM-106Z	E CAP.	10μF 50V M
C601	QETN1EM-476Z	E CAP.	47μF 25V M
C602	QETN1EM-476Z	E CAP.	47μF 25V M
C603	QETN1EM-476Z	E CAP.	47μF 25V M
C609	QFVFIHJ-104Z	MF CAP.	0.1μF 50V J
C610	QFVFIHJ-104Z	MF CAP.	0.1μF 50V J
C611	QFVFIHJ-104Z	MF CAP.	0.1μF 50V J
C621	NCB31HK-102X	C CAP.	1000pF 50V K
C622	NCF21CZ-105X	C CAP.	1μF 16V Z
C623	NCB31HK-102X	C CAP.	1000pF 50V K
C624	NCF21CZ-105X	C CAP.	1μF 16V Z
C625	QETN1CM-107Z	E CAP.	100μF 16V M
C626	QETN1EM-108Z	E CAP.	1000μF 25V M
C627	QETN1HM-474Z	E CAP.	0.47μF 50V M
C628	QETN1EM-108Z	E CAP.	1000μF 25V M
C629	QETN1EM-108Z	E CAP.	1000μF 25V M
C636	QETN1HM-105Z	E CAP.	1μF 50V M
C637	QETN1HM-105Z	E CAP.	1μF 50V M
C700	NCB31HK-102X	C CAP.	1000pF 50V K

[ AV-32D303/R, AV-32D203/R ]

△ Symbol No.	Part No.	Part Name	Description
<b>CAPACITOR</b>			
C701	QETNLM-106Z	E CAP.	10 <sub>μ</sub> F 50V M
C702	QETNLM-106Z	E CAP.	10 <sub>μ</sub> F 50V M
C703	QETNLM-106Z	E CAP.	10 <sub>μ</sub> F 50V M
C704	QETNLM-107Z	E CAP.	100 <sub>μ</sub> F 16V M
C705	NCB31HK-103X	C CAP.	0.01 <sub>μ</sub> F 50V K
C706	QETNLM-105Z	E CAP.	1 <sub>μ</sub> F 50V M
C708	NDC31HJ-220X	C CAP.	220 <sub>μ</sub> F 50V J
C709	NDC31HJ-220X	C CAP.	220 <sub>μ</sub> F 50V J
C711	QETNLM-107Z	E CAP.	100 <sub>μ</sub> F 16V M
C712	NCB31HK-103X	C CAP.	0.01 <sub>μ</sub> F 50V K
C716	QETNLM-106Z	E CAP.	10 <sub>μ</sub> F 50V M
C728	NCB31HK-103X	C CAP.	0.01 <sub>μ</sub> F 50V K
C807	QETNLM-477Z	E CAP.	470 <sub>μ</sub> F 10V M
C813	NCB31HK-102X	C CAP.	1000 <sub>μ</sub> F 50V K
C815	NCB31HK-103X	C CAP.	0.01 <sub>μ</sub> F 50V K
C853	QETNLM-227Z	E CAP.	220 <sub>μ</sub> F 16V M
C854	QETNLM-227Z	E CAP.	220 <sub>μ</sub> F 16V M
C856	QETNLM-227Z	E CAP.	220 <sub>μ</sub> F 16V M
C857	QETNLM-477Z	E CAP.	470 <sub>μ</sub> F 16V M
△ C901	QFZ9072-104	MF CAP.	0.1 <sub>μ</sub> FAC275V K
△ C901	or QFZ9075-104	MPP CAP.	0.1 <sub>μ</sub> FAC275V K
△ C902	QFZ9072-473	MF CAP.	0.047 <sub>μ</sub> FAC275V K
△ C902	or QFZ9075-473		0.047 <sub>μ</sub> FAC275V M
△ C904	QCZ9054-102	C CAP.	1000 <sub>μ</sub> FAC250V Z
△ C905	QCZ9054-102	C CAP.	1000 <sub>μ</sub> FAC250V Z
△ C906	QCZ9054-102	C CAP.	1000 <sub>μ</sub> FAC250V Z
△ C907	QE20169-477	E CAP.	470 <sub>μ</sub> F 200V M
△ C908	or QCZ9054-102	C CAP.	1000 <sub>μ</sub> FAC250V Z
△ C908	QCZ9079-102	C CAP.	1000 <sub>μ</sub> FAC250V M
△ C912	QCZ0340-222	C CAP.	2200 <sub>μ</sub> F 2kV K
C913	QFLC1HJ-471Z	M CAP.	470 <sub>μ</sub> F 50V J
C914	QETNLM-107Z	E CAP.	100 <sub>μ</sub> F 50V M
C916	NDC31HJ-331X	C CAP.	330 <sub>μ</sub> F 50V J
C917	NCB31HK-182X	C CAP.	1800 <sub>μ</sub> F 50V K
C918	NCB31HK-104X	C CAP.	0.1 <sub>μ</sub> F 50V K
C919	QFP30GJ-103	PP CAP.	0.01 <sub>μ</sub> F 400V J
C931	QE20203-107	E CAP.	100 <sub>μ</sub> F 160V M
C933	QETNLM-108Z	E CAP.	1000 <sub>μ</sub> F 16V M
C934	NDC31HJ-151X	C CAP.	150 <sub>μ</sub> F 50V J
C935	QETNLM-108Z	E CAP.	1000 <sub>μ</sub> F 25V M
C937	QCZ0340-102	C CAP.	1000 <sub>μ</sub> F 2kV K
C938	QETNLM-477Z	E CAP.	470 <sub>μ</sub> F 16V M
C939	QCB32HK-152Z	C CAP.	1500 <sub>μ</sub> F 500V K
C941	QCB32HK-102Z	C CAP.	1000 <sub>μ</sub> F 500V K
C942	QEHRIHM-105Z	E CAP.	1 <sub>μ</sub> F 50V M
C951	QETNLM-477Z	E CAP.	470 <sub>μ</sub> F 25V M
C952	QETNLM-227Z	E CAP.	220 <sub>μ</sub> F 16V M
C971	QETNLM-107Z	E CAP.	100 <sub>μ</sub> F 16V M
C972	QETNLM-476Z	E CAP.	47 <sub>μ</sub> F 25V M
C973	QETNLM-106Z	E CAP.	10 <sub>μ</sub> F 50V M
△ C997	QCZ9052-102	C CAP.	1000 <sub>μ</sub> FAC125V M
△ C998	QCZ9074-103	C CAP.	0.01 <sub>μ</sub> FAC250V M
△ C999	QCZ9074-103	C CAP.	0.01 <sub>μ</sub> FAC250V M

<b>TRANSF</b>			
T111	QQR0907-001	IFT	
T501	CE42034-002	HOR DRIVE TRANS	
△ T502	QQH0121-001	FB TRANSF	
△ T921	QOS0138-001	SW TRANSF	
△ T951	QQT0372-001	POWER TRANSF	or QQT0355-001

<b>COIL</b>			
L001	QQL244K-560Z	COIL	56 <sub>μ</sub> H K
L101	QQL2014-R22	INDUCTOR	
L113	QQL244K-4R7Z	COIL	4.7 <sub>μ</sub> H K
L131	QQL244K-150Z	COIL	15 <sub>μ</sub> H K
L161	QQL244K-220Z	INDUCTOR	
L232	QQL244K-560Z	COIL	56 <sub>μ</sub> H K
L241	QQL244K-220Z	INDUCTOR	
L391	QQL244K-220Z	INDUCTOR	
△ L511	CE41029-00A	LINEARITY COIL	
△ L512	QQL2036-821	INDUCTOR	or QQL2027-821
△ L521	QQL2026-540	INDUCTOR	

△ Symbol No.	Part No.	Part Name	Description
<b>COIL</b>			
L701	QQL244K-220Z	INDUCTOR	
L702	QQL244K-220Z	INDUCTOR	
L703	QQL244K-220Z	INDUCTOR	
L704	QQL244K-220Z	INDUCTOR	
L705	QQL244K-220Z	INDUCTOR	
L931	QQL26AK-470Z	COIL	47 <sub>μ</sub> H K
L933	QQL26AK-470Z	COIL	47 <sub>μ</sub> H K
L940	QQR0582-001Z	FERRITE BEADS	

<b>DIODE</b>			
D305	1SS133-T2	SI DIODE	
D306	1SS133-T2	SI DIODE	
D307	1SS133-T2	SI DIODE	
D308	1SS133-T2	SI DIODE	
D309	1SS133-T2	SI DIODE	
D310	1SS133-T2	SI DIODE	
D352	MTZJ9-1C-T2	Z DIODE	
D353	1SS133-T2	SI DIODE	
D354	MTZJ9-3A-T2	Z DIODE	
D421	1N4003-T2	SI DIODE	
D422	MTZJ75-T2	Z DIODE	
D432	1SS133-T2	SI DIODE	
D501	RH3G-F1	SI DIODE	
△ D502	RU3M-LFC4	SI DIODE	
D521	RH15-T3	SI DIODE	
D523	RGP10J-5025-T3	SI DIODE	
D525	1SS81-T5	SI DIODE	
D526	1SS81-T5	SI DIODE	
D527	1SR124-400A-T2	SI DIODE	
D529	MTZJ5-1C-T2	Z DIODE	
△ D531	MA4068N/Z1/-T2	Z DIODE	
D535	1SS133-T2	SI DIODE	
D537	1SR35-400A-T2	SI DIODE	
D601	MTZJ9-1C-T2	Z DIODE	
D602	MTZJ9-1C-T2	Z DIODE	
D603	MTZJ9-1C-T2	Z DIODE	
D700	MTZJ5-6B-T2	Z DIODE	
D701	1SS133-T2	SI DIODE	
D703	MTZJ5-6B-T2	Z DIODE	
D704	MTZJ5-6B-T2	Z DIODE	
D705	1SS133-T2	SI DIODE	
D706	MTZJ5-6B-T2	Z DIODE	
D707	MTZJ5-6B-T2	Z DIODE	
D708	MTZJ5-6B-T2	Z DIODE	
D709	MTZJ5-6B-T2	Z DIODE	
D723	MTZJ5-6B-T2	Z DIODE	
D810	MTZJ5-6B-T2	Z DIODE	
△ D901	GS1B460-S1	BRIDGE DIODE	
D910	MA700A-T2	SB DIODE	
△ D911	RGP10J-5025-T3	SI DIODE	
△ D912	RGP10J-5025-T3	SI DIODE	
△ D913	RGP10J-5025-T3	SI DIODE	
D914	1SS133-T2	SI DIODE	
D915	SAR501-T2	SI DIODE	
D917	MTZJ30A-T2	Z DIODE	
D918	MTZJ5-1C-T2	Z DIODE	
D920	1SS133-T2	SI DIODE	
D931	RU30A-F1	SI DIODE	
D933	RU3YK-LFC4	SI DIODE	
D935	RU3YK-LFC4	SI DIODE	
D941	MTZJ33A-T2	Z DIODE	
D945	MTZJ9-1B-T2	Z DIODE	
D952	1SS133-T2	SI DIODE	
D953	1SS133-T2	SI DIODE	
D954	1N4002G-T2	SI DIODE	
D955	1N4002G-T2	SI DIODE	
D956	1N4002G-T2	SI DIODE	
D957	1N4002G-T2	SI DIODE	
D972	MTZJ15C-T2	Z DIODE	
D973	1SS133-T2	SI DIODE	

<b>TRANSISTOR</b>			
Q001	UN2212-X	DIGI TRANSISTOR	
Q101	2SC5083/L-P/-T	TRANSISTOR	
Q131	2SB709A/QR/-X	TRANSISTOR	
Q161	2SD601A/QR/-X	TRANSISTOR	
Q211	2SD601A/QR/-X	TRANSISTOR	

[ AV-32D303/R, AV-32D203/R ]

△ Symbol No.	Part No.	Part Name	Description
<b>TRANSISTOR</b>			
Q232	2SD601A/QR/-X	TRANSISTOR	
Q233	2SD601A/QR/-X	TRANSISTOR	
Q352	2SD601A/QR/-X	TRANSISTOR	
Q431	UN2212-X	DIGI TRANSISTOR	
Q501	2SC4212/Z1/	TRANSISTOR	
△ Q511	2SD2645-YD	POWER TRANSISTO	H. OUT
Q531	2SC2785/JH/-T	SI TRANSISTOR	
Q532	2SB709A/QR/-X	TRANSISTOR	
Q541	2SB709A/QR/-X	TRANSISTOR	
Q542	2SB709A/QR/-X	TRANSISTOR	
Q543	2SD1408/OY/-LB	POW TRANSISTOR	
Q622	2SD601A/QR/-X	TRANSISTOR	
Q623	UN2212-X	DIGI TRANSISTOR	
Q701	2SB709A/QR/-X	TRANSISTOR	
Q951	2SD1383K/AB/-X	TRANSISTOR	
Q971	2SA1208/ST/Z1-T	TRANSISTOR	
<b>IC</b>			
IC101	M52342SP	IC	
IC201	TH8812CSBNG3U68	IC	
△ IC421	LA7841	IC	
IC621	LA4485	IC	
IC702	AT24C08-32D503	IC	(SERVICE)
IC703	S-80840ANY-T	IC	
IC704	AN7805-T	IC	
IC852	AN7809F	IC	or BA17809T
IC853	AN7805F	IC	or BA17805T
△ IC911	STR-G6624/F8	IC	
△ IC921	SE135N	IC	
<b>OTHERS</b>			
CF001	QAX0349-001	C TRAP	
CF131	QAX0639-001Z	C TRAP	
CF161	QAX0642-001Z	C FILTER	
CN001	QGB1505J1-35	B TO B CONNE	
CN004	QGA2501C5-05Z	W TO B CONNE	
CN005	QGA2501C5-04Z	W TO B CONNE	
CN007	QGA2501C5-07Z	W TO B CONNE	
△ CN0PM	QMPD390-200-JS	POWER CORD	or QMPD200-200-JC
△ CP932	ICP-N70-T	C PROTECTOR	
△ CP936	ICP-N70-T	C PROTECTOR	
△ F901	QMF0007-5R0J1	FUSE	5.0A or QMF51U1-5R0-J8
△ F905	QMF2049-5R0Z-E	FUSE	5.0A
FC901	CEM0002-001Z	FUSE CLIP	
FC902	CEM0002-001Z	FUSE CLIP	
△ FR525	QRZ9017-4R7	F R	4.7 Ω 1/4W J
△ FR527	QRZ9011-470	F R	47Ω 1/2W J
J601	QNN0349-002	PIN JACK	
J810	QNS0001-001	JACK	
K401	QQR0621-002Z	FERRITE BEADS	
K912	QQR0582-001Z	FERRITE BEADS	
K916	QQR0582-001Z	FERRITE BEADS	
K917	QQR0582-001Z	FERRITE BEADS	
K918	QQR0582-001Z	FERRITE BEADS	
K931	QQR0582-001Z	FERRITE BEADS	
K932	QQR0582-001Z	FERRITE BEADS	
K933	QQR0621-002Z	FERRITE BEADS	
K935	QQR0582-001Z	FERRITE BEADS	
LC601	QQR1199-001	EMI FILTER	
LC602	QQR1199-001	EMI FILTER	
LC603	QQR1199-001	EMI FILTER	
△ LF901	QQR1085-003	LINE FILTER	or QQR0527-003
△ PC921	TLP421F/D4-GRV	IC(PHOTO COUPLE	
△ RY951	QSK0086-001	RELAY	or QSK0130-001, QSK0085-001
S421	QSL4A13-C02	LEVER SWITCH	
SF101	QAX0723-001	SAW FILTER	
△ TH901	QAD0132-3R0	P THERMISTOR	
△ TU001	QAU0274-001	TUNER	
△ VA901	ERZV10V621CS	ZNR	
X701	QAX0717-001Z	CRYSTAL	

**CRT SOCKET P.W. BOARD ASS'Y (SGE-3007A-M2)**

Refer to PARTS LIST in page 50 for this P.W. board

**AV SELECTOR P.W. BOARD ASS'Y (SGE-5001A-M2)**

Refer to PARTS LIST in page 45 for this P.W. board

**FRONT AV IN P.W. BOARD ASS'Y (SGE-6001A-M2)**

Refer to PARTS LIST in page 46 for this P.W. board

**FRONT CONTROL P.W. BOARD ASS'Y (SGE-7001A-M2)**

Refer to PARTS LIST in page 46 for this P.W. board

[ AV-32D303/Y, AV-32D203/Y ]

# PRINTED WIRING BOARD PARTS LIST

## MAIN P.W. BOARD ASS'Y (SGE-1006A-M2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R002	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R003	NRSA63J-101X	MG R	100Ω 1/16W J
R004	NRSA63J-101X	MG R	100Ω 1/16W J
R005	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R008	NRSA63J-820X	MG R	82Ω 1/16W J
R009	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R101	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R102	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R103	QRE121J-101Y	C R	100Ω 1/2W J
R104	NRSA63J-180X	MG R	18Ω 1/16W J
R105	NRSA63J-270X	MG R	27Ω 1/16W J
R111	NRSA63J-394X	MG R	390kΩ 1/16W J
R112	NRSA63J-334X	MG R	330kΩ 1/16W J
R113	NRSA63J-101X	MG R	100Ω 1/16W J
R115	NRSA63J-101X	MG R	100Ω 1/16W J
R116	NRSA63J-680X	MG R	68Ω 1/16W J
R117	NRSA63J-273X	MG R	27kΩ 1/16W J
R118	NRSA63J-223X	MG R	22kΩ 1/16W J
R131	NRSA63J-102X	MG R	1kΩ 1/16W J
R132	NRSA63J-331X	MG R	330Ω 1/16W J
R133	NRSA63J-821X	MG R	820Ω 1/16W J
R134	NRSA63J-561X	MG R	560Ω 1/16W J
R135	NRSA63J-102X	MG R	1kΩ 1/16W J
R161	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R162	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R163	NRSA63J-223X	MG R	22kΩ 1/16W J
R164	NRSA63J-102X	MG R	1kΩ 1/16W J
R165	NRSA63J-223X	MG R	22kΩ 1/16W J
R166	NRSA63J-103X	MG R	10kΩ 1/16W J
R167	NRSA63J-102X	MG R	1kΩ 1/16W J
R168	NRSA63J-101X	MG R	100Ω 1/16W J
R169	NRSA63J-561X	MG R	560Ω 1/16W J
R171	NRSA63J-103X	MG R	10kΩ 1/16W J
R201	NRSA63J-223X	MG R	22kΩ 1/16W J
R212	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R215	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R216	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R217	NRSA63J-102X	MG R	1kΩ 1/16W J
R222	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R227	NRSA63J-104X	MG R	100kΩ 1/16W J
R231	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R237	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R238	NRSA63J-473X	MG R	47kΩ 1/16W J
R241	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R243	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R281	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R282	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R283	NRSA63J-681X	MG R	680Ω 1/16W J
R286	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R287	NRSA63J-101X	MG R	100Ω 1/16W J
R288	NRSA63J-471X	MG R	470Ω 1/16W J
R289	NRSA63J-154X	MG R	150kΩ 1/16W J
R290	NRSA63J-561X	MG R	560Ω 1/16W J
R292	NRSA63J-124X	MG R	120kΩ 1/16W J
R293	NRSA63J-224X	MG R	220kΩ 1/16W J
R301	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R302	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R303	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R304	NRSA63J-101X	MG R	100Ω 1/16W J
R305	NRSA63J-101X	MG R	100Ω 1/16W J
R306	NRSA63J-101X	MG R	100Ω 1/16W J
R354	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R355	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R356	NRSA63J-123X	MG R	12kΩ 1/16W J
R359	NRSA63J-103X	MG R	10kΩ 1/16W J
R360	NCB31HK-103X	C CAP.	0.01μF 50V K
R421	NRSA63J-822X	MG R	8.2kΩ 1/16W J
R423	NRSA63J-393X	MG R	39kΩ 1/16W J
R424	NRSA63J-393X	MG R	39kΩ 1/16W J
R426	NRSA63J-183X	MG R	18kΩ 1/16W J

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R427	QRT029J-1R5	MF R	1.5Ω 1/2W J
R429	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R430	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R431	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R432	NRSA63J-101X	MG R	100Ω 1/16W J
R433	NRSA63J-681X	MG R	680Ω 1/16W J
R434	QRL029J-181	OM R	180Ω 1/2W J
R435	QRE121J-102Y	C R	1kΩ 1/2W J
R441	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R447	NRSA63J-104X	MG R	100kΩ 1/16W J
R448	NRSA63J-473X	MG R	47kΩ 1/16W J
R449	NRSA63J-103X	MG R	10kΩ 1/16W J
R501	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R502	NRSA63J-271X	MG R	27Ω 1/16W J
R503	QRE121J-103Y	C R	10kΩ 1/2W J
R504	QRL089J-102	OM R	1kΩ 1/2W J
R505	QRL089J-102	OM R	1kΩ 1/2W J
R511	QRE121J-220Y	C R	22Ω 1/2W J
R512	QRE121J-681Y	C R	680Ω 1/2W J
R523	QRJ146J-333X	C R	33kΩ 1/4W J
R526	QRE121J-272Y	C R	2.7kΩ 1/2W J
R527	QRE121J-154Y	C R	150kΩ 1/2W J
R528	QRE121J-154Y	C R	150kΩ 1/2W J
R529	NRSA63J-331X	MG R	330Ω 1/16W J
R531	QRJ146J-391X	C R	390Ω 1/4W J
R532	NRSA63J-273X	MG R	27kΩ 1/16W J
R533	NRSA63J-123X	MG R	12kΩ 1/16W J
R534	NRSA63J-123X	MG R	12kΩ 1/16W J
△ R535	NRVA02D-222X	MF R	2.2kΩ 1/10W D
△ R537	NRVA02D-752X	MF R	7.5kΩ 1/10W D
R538	NRSA63J-333X	MG R	33kΩ 1/16W J
R543	QRE121J-122Y	C R	1.2kΩ 1/2W J
R544	QRE121J-392Y	C R	3.9kΩ 1/2W J
R545	QRE121J-822Y	C R	8.2kΩ 1/2W J
R546	NRSA63J-331X	MG R	330Ω 1/16W J
R547	NRSA63J-104X	MG R	100kΩ 1/16W J
R548	QRE121J-152Y	C R	1.5kΩ 1/2W J
R553	QRL089J-180	OM R	18Ω 1/2W J
△ R554	QRK126J-150X	C R	15Ω 1/2W J
R555	QRX029J-3R3	MF R	3.3Ω 1/2W J
R601	NRSA63J-750X	MG R	75Ω 1/16W J
R602	NRSA63J-750X	MG R	75Ω 1/16W J
R603	NRSA63J-750X	MG R	75Ω 1/16W J
R610	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R611	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R612	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R621	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R622	NRSA63J-681X	MG R	680Ω 1/16W J
R623	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R624	NRSA63J-681X	MG R	680Ω 1/16W J
R626	NRSA63J-223X	MG R	22kΩ 1/16W J
R627	NRSA63J-223X	MG R	22kΩ 1/16W J
R631	NRSA63J-333X	MG R	33kΩ 1/16W J
R632	NRSA63J-223X	MG R	22kΩ 1/16W J
R638	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R639	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R651	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R652	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R653	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R700	NRSA63J-102X	MG R	1kΩ 1/16W J
R701	NRSA63J-103X	MG R	10kΩ 1/16W J
R702	NRSA63J-102X	MG R	1kΩ 1/16W J
R704	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R705	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R706	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R707	NRSA63J-103X	MG R	10kΩ 1/16W J
R708	NRSA63J-101X	MG R	100Ω 1/16W J
R709	NRSA63J-101X	MG R	100Ω 1/16W J
R715	NRSA63J-103X	MG R	10kΩ 1/16W J
R718	NRSA63J-223X	MG R	22kΩ 1/16W J

[ AV-32D303/Y, AV-32D203/Y ]

△ Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>			
R721	NRS463J-102X	MG R	1kΩ 1/16W J
R728	NRS463J-102X	MG R	1kΩ 1/16W J
R729	NRS463J-223X	MG R	22kΩ 1/16W J
R731	NRS463J-101X	MG R	100Ω 1/16W J
R732	NRS463J-101X	MG R	100Ω 1/16W J
R733	NRS463J-472X	MG R	4.7kΩ 1/16W J
R734	NRS463J-472X	MG R	4.7kΩ 1/16W J
R739	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R740	NRS463J-103X	MG R	10kΩ 1/16W J
R764	NRS463J-221X	MG R	220Ω 1/16W J
R765	NRS463J-221X	MG R	220Ω 1/16W J
R766	NRS463J-221X	MG R	220Ω 1/16W J
R767	NRS463J-221X	MG R	220Ω 1/16W J
R769	NRS463J-682X	MG R	6.8kΩ 1/16W J
R772	NRS463J-103X	MG R	10kΩ 1/16W J
R811	NRS463J-473X	MG R	47kΩ 1/16W J
R812	NRS463J-102X	MG R	1kΩ 1/16W J
R816	NRS463J-124X	MG R	120kΩ 1/16W J
R821	NRS463J-184X	MG R	180kΩ 1/16W J
R822	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R827	NRS463J-102X	MG R	1kΩ 1/16W J
R855	QRG089J-100	OM R	10Ω 3W J
△ R857	QRL029J-470	OM R	47Ω 2W J
△ R858	QRL029J-820	OM R	82Ω 2W J
△ R901	QRQ074K-R47	UNF R	0.47Ω 7W K
△ R909	QRG01GJ-470	OM R	47Ω 1W J
R911	QRE121J-223Y	C R	22kΩ 1/2W J
R912	QRT029J-R22	MF R	0.22Ω 2W J
R913	QRT029J-R22	MF R	0.22Ω 2W J
R914	QRK126J-681X	C R	680Ω 1/2W J
R915	QRK129J-6R8	C R	6.8Ω 1/2W J
R917	QRK126J-332X	C R	3.3kΩ 1/2W J
R918	QRE121J-222Y	C R	2.2kΩ 1/2W J
R919	QRE121J-684Y	C R	680kΩ 1/2W J
R924	QRE121J-222Y	C R	2.2kΩ 1/2W J
R930	QRE121J-223Y	C R	22kΩ 1/2W J
R939	QRT089J-2R2	MF R	2.2Ω 3W J
R940	QRE121J-181Y	C R	180Ω 1/2W J
R941	QRL029J-183	OM R	18kΩ 2W J
R950	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R951	NRS463J-473X	MG R	47kΩ 1/16W J
R952	NRS463J-102X	MG R	1kΩ 1/16W J
R953	QRE121J-820Y	C R	82Ω 1/2W J
R973	QRE121J-272Y	C R	2.7kΩ 1/2W J
R975	QRE121J-223Y	C R	22kΩ 1/2W J
R977	QRE121J-473Y	C R	47kΩ 1/2W J
R978	NRS463J-333X	MG R	33kΩ 1/16W J
R979	QRT029J-1R2	MF R	1.2Ω 2W J
R980	QRT029J-1R2	MF R	1.2Ω 2W J
△ R998	QRZ9041-275	C R	2.7kΩ 1/2W K
R999	QRE121J-121Y	C R	120Ω 1/2W J

**CAPACITOR**

C001	QETN1HM-475Z	E CAP.	4.7μF 50V M
C003	QETN1HM-106Z	E CAP.	10μF 50V M
C004	QETN1CM-108Z	E CAP.	1000μF 16V M
C006	QETN1EM-476Z	E CAP.	47μF 25V M
C101	NCB31HK-103X	C CAP.	0.01μF 50V K
C102	NCB31HK-103X	C CAP.	0.01μF 50V K
C104	NCB31HK-103X	C CAP.	0.01μF 50V K
C105	NCB31HK-103X	C CAP.	0.01μF 50V K
C106	QETN1EM-476Z	E CAP.	47μF 25V M
C107	NCB31HK-103X	C CAP.	0.01μF 50V K
C113	NCB31HK-103X	C CAP.	0.01μF 50V K
C114	NCB31HK-103X	C CAP.	0.01μF 50V K
C116	QFVFIHJ-224Z	MF CAP.	0.22μF 50V J
C117	QETN1EM-476Z	E CAP.	47μF 25V M
C118	NCB31HK-103X	C CAP.	0.01μF 50V K
C119	NDC31HJ-681X	C CAP.	680pF 50V J
C120	QETN1HM-474Z	E CAP.	0.47μF 50V M
C124	NCB31HK-103X	C CAP.	0.01μF 50V K
C131	NCB31HK-103X	C CAP.	0.01μF 50V K
C161	QETN1HM-106Z	E CAP.	10μF 50V M
C163	NDC31HJ-470X	C CAP.	47pF 50V J

△ Symbol No.	Part No.	Part Name	Description
<b>CAPACITOR</b>			
C164	NDC31HJ-470X	C CAP.	47pF 50V J
C165	NCB31HK-103X	C CAP.	0.01μF 50V K
C166	NCB31HK-103X	C CAP.	0.01μF 50V K
C202	QETN1HM-105Z	E CAP.	1μF 50V M
C203	NCB31HK-152X	C CAP.	1500pF 50V K
C211	QENCLCM-106Z	E CAP.	10μF 16V M
C212	NDC31HJ-100X	C CAP.	10pF 50V J
C221	QETN1HM-106Z	E CAP.	10μF 50V M
C222	QFVFIHJ-104Z	MF CAP.	0.1μF 50V J
C223	NCB31HK-103X	C CAP.	0.01μF 50V K
C233	NDC31HJ-680X	C CAP.	68pF 50V J
C237	NCB31HK-103X	C CAP.	0.01μF 50V K
C241	NCB31HK-103X	C CAP.	0.01μF 50V K
C242	QETN1HM-225Z	E CAP.	2.2μF 50V M
C243	QETN1CM-107Z	E CAP.	100μF 16V M
C244	NCB31HK-103X	C CAP.	0.01μF 50V K
C281	QFVFIHJ-474Z	MF CAP.	0.47μF 50V J
C282	QETN1CM-107Z	E CAP.	100μF 16V M
C283	NCB31HK-103X	C CAP.	0.01μF 50V K
C284	QETN1HM-225Z	E CAP.	2.2μF 50V M
C285	NCB31HK-103X	C CAP.	0.01μF 50V K
C286	QETN1HM-106Z	E CAP.	10μF 50V M
C287	QETN1CM-107Z	E CAP.	100μF 16V M
C288	NCB31HK-103X	C CAP.	0.01μF 50V K
C352	QETN1CM-336Z	E CAP.	33μF 16V M
C354	NCB31HK-103X	C CAP.	0.01μF 50V K
C391	QETN1CM-107Z	E CAP.	100μF 16V M
C392	NCB31HK-103X	C CAP.	0.01μF 50V K
C422	QFLC2AJ-102Z	M CAP.	1000pF 100V J
C424	QETN1VM-107Z	E CAP.	100μF 35V M
C425	QETN1VM-477Z	E CAP.	470μF 35V M
C427	QETN1HM-105Z	E CAP.	1μF 50V M
C428	QETN1EM-228	E CAP.	2200μF 25V M
C431	QFLC2AK-563Z	M CAP.	0.056μF 100V K
C432	QETN1EM-476Z	E CAP.	47μF 25V M
C433	QETN1EM-476Z	E CAP.	47μF 25V M
C435	NCB31HK-183X	C CAP.	0.018μF 50V K
C440	QCS32HJ-220Z	C CAP.	220pF 500V J
C501	QCB32HK-151Z	C CAP.	150pF 500V K
C502	QCB32HK-331Z	C CAP.	330pF 500V K
C503	QEHRCM-105Z	E CAP.	1μF 160V M
C504	QEZ0203-107	E CAP.	100μF 160V M
C507	QEM6LHK-475Z	E CAP.	4.7μF 50V K
C508	QEM6LHK-475Z	E CAP.	4.7μF 50V K
△ C510	QFZ0200-53Z	MPP CAP.	5300pF1.5kVH±3%
△ C510	or QFZ0196-53Z	MPP CAP.	5300pF1.5kVH±3%
△ C513	QFZ0198-133	MPP CAP.	0.013μF1.5kVH±3%
△ C514	QFP32GJ-183	PP CAP.	0.018μF 400V J
△ C515	QFZ0199-564	MPP CAP.	0.56μF 250V J
△ C515	or QFZ0197-564	MPP CAP.	0.56μF 250V J
C516	QCB32HK-561Z	C CAP.	560pF 500V K
C521	QETN2EM-106Z	E CAP.	10μF 250V M
C523	QEHRLVM-108Z	E CAP.	1000μF 35V M
C525	QETN1VM-107Z	E CAP.	100μF 35V M
C526	QFV21HJ-824Z	MF CAP.	0.82μF 50V J
C527	QFLC2AJ-103Z	M CAP.	0.01μF 100V J
C531	QCB32HK-102Z	C CAP.	1000pF 500V K
C533	QETN1HM-106Z	E CAP.	10μF 50V M
C601	QETN1EM-476Z	E CAP.	47μF 25V M
C602	QETN1EM-476Z	E CAP.	47μF 25V M
C603	QETN1EM-476Z	E CAP.	47μF 25V M
C609	QFVFIHJ-104Z	MF CAP.	0.1μF 50V J
C610	QFVFIHJ-104Z	MF CAP.	0.1μF 50V J
C611	QFVFIHJ-104Z	MF CAP.	0.1μF 50V J
C621	NCB31HK-102X	C CAP.	1000pF 50V K
C622	NCF21CZ-105X	C CAP.	1μF 16V Z
C623	NCB31HK-102X	C CAP.	1000pF 50V K
C624	NCF21CZ-105X	C CAP.	1μF 16V Z
C625	QETN1CM-107Z	E CAP.	100μF 16V M
C626	QETN1EM-108Z	E CAP.	1000μF 25V M
C627	QETN1HM-474Z	E CAP.	0.47μF 50V M
C628	QETN1EM-108Z	E CAP.	1000μF 25V M
C629	QETN1EM-108Z	E CAP.	1000μF 25V M
C636	QETN1HM-105Z	E CAP.	1μF 50V M
C637	QETN1HM-105Z	E CAP.	1μF 50V M
C700	NCB31HK-102X	C CAP.	1000pF 50V K

[ AV-32D303/Y, AV-32D203/Y ]

△ Symbol No.	Part No.	Part Name	Description
<b>CAPACITOR</b>			
C701	QETNLM-106Z	E CAP.	10 <sub>μ</sub> F 50V M
C702	QETNLM-106Z	E CAP.	10 <sub>μ</sub> F 50V M
C703	QETNLM-106Z	E CAP.	10 <sub>μ</sub> F 50V M
C704	QETNLM-107Z	E CAP.	100 <sub>μ</sub> F 16V M
C705	NCB31HK-103X	C CAP.	0.01 <sub>μ</sub> F 50V K
C706	QETNLM-105Z	E CAP.	1 <sub>μ</sub> F 50V M
C708	NDC31HJ-220X	C CAP.	220 <sub>μ</sub> F 50V J
C709	NDC31HJ-220X	C CAP.	220 <sub>μ</sub> F 50V J
C711	QETNLM-107Z	E CAP.	100 <sub>μ</sub> F 16V M
C712	NCB31HK-103X	C CAP.	0.01 <sub>μ</sub> F 50V K
C716	QETNLM-106Z	E CAP.	10 <sub>μ</sub> F 50V M
C728	NCB31HK-103X	C CAP.	0.01 <sub>μ</sub> F 50V K
C807	QETNLM-477Z	E CAP.	470 <sub>μ</sub> F 10V M
C813	NCB31HK-102X	C CAP.	1000 <sub>μ</sub> F 50V K
C815	NCB31HK-103X	C CAP.	0.01 <sub>μ</sub> F 50V K
C853	QETNLM-227Z	E CAP.	220 <sub>μ</sub> F 16V M
C854	QETNLM-227Z	E CAP.	220 <sub>μ</sub> F 16V M
C856	QETNLM-227Z	E CAP.	220 <sub>μ</sub> F 16V M
C857	QETNLM-477Z	E CAP.	470 <sub>μ</sub> F 16V M
△ C901	QFZ9072-104	MF CAP.	0.1 <sub>μ</sub> FAC25V K
△ C901	or QFZ9075-104	MPP CAP.	0.1 <sub>μ</sub> FAC25V K
△ C902	QFZ9072-473	MF CAP.	0.047 <sub>μ</sub> FAC25V K
△ C902	or QFZ9075-473		0.047 <sub>μ</sub> FAC25V M
△ C904	QCZ9054-102	C CAP.	1000 <sub>μ</sub> FAC250V Z
△ C905	QCZ9054-102	C CAP.	1000 <sub>μ</sub> FAC250V Z
△ C906	QCZ9054-102	C CAP.	1000 <sub>μ</sub> FAC250V Z
△ C907	QE20169-477	E CAP.	470 <sub>μ</sub> F 200V M
△ C908	or QCZ9054-102	C CAP.	1000 <sub>μ</sub> FAC250V Z
△ C908	QCZ9079-102	C CAP.	1000 <sub>μ</sub> FAC250V M
△ C912	QCZ0340-222	C CAP.	2200 <sub>μ</sub> F 2kV K
C913	QFLC1HJ-471Z	M CAP.	470 <sub>μ</sub> F 50V J
C914	QETNLM-107Z	E CAP.	100 <sub>μ</sub> F 50V M
C916	NDC31HJ-331X	C CAP.	330 <sub>μ</sub> F 50V J
C917	NCB31HK-182X	C CAP.	1800 <sub>μ</sub> F 50V K
C918	NCB31HK-104X	C CAP.	0.1 <sub>μ</sub> F 50V K
C919	QFP30GJ-103	PP CAP.	0.01 <sub>μ</sub> F 400V J
C931	QE20203-107	E CAP.	100 <sub>μ</sub> F 160V M
C933	QETNLM-108Z	E CAP.	1000 <sub>μ</sub> F 16V M
C934	NDC31HJ-151X	C CAP.	150 <sub>μ</sub> F 50V J
C935	QETNLM-108Z	E CAP.	1000 <sub>μ</sub> F 25V M
C937	QCZ0340-102	C CAP.	1000 <sub>μ</sub> F 2kV K
C938	QETNLM-477Z	E CAP.	470 <sub>μ</sub> F 16V M
C939	QCB32HK-152Z	C CAP.	1500 <sub>μ</sub> F 500V K
C941	QCB32HK-102Z	C CAP.	1000 <sub>μ</sub> F 500V K
C942	QEHRIHM-105Z	E CAP.	1 <sub>μ</sub> F 50V M
C951	QETNLM-477Z	E CAP.	470 <sub>μ</sub> F 25V M
C952	QETNLM-227Z	E CAP.	220 <sub>μ</sub> F 16V M
C971	QETNLM-107Z	E CAP.	100 <sub>μ</sub> F 16V M
C972	QETNLM-476Z	E CAP.	47 <sub>μ</sub> F 25V M
C973	QETNLM-106Z	E CAP.	10 <sub>μ</sub> F 50V M
△ C997	QCZ9052-102	C CAP.	1000 <sub>μ</sub> FAC125V M
△ C998	QCZ9074-103	C CAP.	0.01 <sub>μ</sub> FAC250V M
△ C999	QCZ9074-103	C CAP.	0.01 <sub>μ</sub> FAC250V M

<b>TRANSF</b>			
T111	QQR0907-001	IFT	
T501	CE42034-002	HOR DRIVE TRANS	
△ T502	QQH0121-001	FB TRANSF	
△ T921	QOS0138-001	SW TRANSF	
△ T951	QQT0372-001	POWER TRANSF	or QQT0355-001

<b>COIL</b>			
L001	QQL244K-560Z	COIL	56 <sub>μ</sub> H K
L101	QQL2014-R22	INDUCTOR	
L113	QQL244K-4R7Z	COIL	4.7 <sub>μ</sub> H K
L131	QQL244K-150Z	COIL	15 <sub>μ</sub> H K
L161	QQL244K-220Z	INDUCTOR	
L232	QQL244K-560Z	COIL	56 <sub>μ</sub> H K
L241	QQL244K-220Z	INDUCTOR	
L391	QQL244K-220Z	INDUCTOR	
△ L511	QQR1027-003	LINEARITY COIL	
△ L512	QQL2036-821	INDUCTOR	or QQL2027-821
△ L521	QQL2026-560	INDUCTOR	

△ Symbol No.	Part No.	Part Name	Description
<b>COIL</b>			
L701	QQL244K-220Z	INDUCTOR	
L702	QQL244K-220Z	INDUCTOR	
L703	QQL244K-220Z	INDUCTOR	
L704	QQL244K-220Z	INDUCTOR	
L705	QQL244K-220Z	INDUCTOR	
L931	QQL26AK-470Z	COIL	47 <sub>μ</sub> H K
L933	QQL26AK-470Z	COIL	47 <sub>μ</sub> H K
L940	QQR0582-001Z	FERRITE BEADS	

<b>DIODE</b>			
D305	1SS133-T2	SI DIODE	
D306	1SS133-T2	SI DIODE	
D307	1SS133-T2	SI DIODE	
D308	1SS133-T2	SI DIODE	
D309	1SS133-T2	SI DIODE	
D310	1SS133-T2	SI DIODE	
D352	MTZJ9-1C-T2	Z DIODE	
D353	1SS133-T2	SI DIODE	
D354	MTZJ3-3A-T2	Z DIODE	
D421	1N4003-T2	SI DIODE	
D422	MTZJ75-T2	Z DIODE	
D432	1SS133-T2	SI DIODE	
D501	RH3G-F1	SI DIODE	
△ D502	RU3M-LFC4	SI DIODE	
D521	RH15-T3	SI DIODE	
D523	RGP10J-5025-T3	SI DIODE	
D525	1SS81-T5	SI DIODE	
D526	1SS81-T5	SI DIODE	
D527	1SR124-400A-T2	SI DIODE	
D529	MTZJ5-1C-T2	Z DIODE	
△ D531	MA4068N/Z1/-T2	Z DIODE	
D535	1SS133-T2	SI DIODE	
D537	1SR35-400A-T2	SI DIODE	
D601	MTZJ9-1C-T2	Z DIODE	
D602	MTZJ9-1C-T2	Z DIODE	
D603	MTZJ9-1C-T2	Z DIODE	
D700	MTZJ5-6B-T2	Z DIODE	
D701	1SS133-T2	SI DIODE	
D703	MTZJ5-6B-T2	Z DIODE	
D704	MTZJ5-6B-T2	Z DIODE	
D705	1SS133-T2	SI DIODE	
D706	MTZJ5-6B-T2	Z DIODE	
D707	MTZJ5-6B-T2	Z DIODE	
D708	MTZJ5-6B-T2	Z DIODE	
D709	MTZJ5-6B-T2	Z DIODE	
D723	MTZJ5-6B-T2	Z DIODE	
D810	MTZJ5-6B-T2	Z DIODE	
△ D901	GS1B460-S1	BRIDGE DIODE	
D910	MA700A-T2	SB DIODE	
△ D911	RGP10J-5025-T3	SI DIODE	
△ D912	RGP10J-5025-T3	SI DIODE	
△ D913	RGP10J-5025-T3	SI DIODE	
D914	1SS133-T2	SI DIODE	
D915	SAR501-T2	SI DIODE	
D917	MTZJ30A-T2	Z DIODE	
D918	MTZJ5-1C-T2	Z DIODE	
D920	1SS133-T2	SI DIODE	
D931	RU30A-F1	SI DIODE	
D933	RU3YK-LFC4	SI DIODE	
D935	RU3YK-LFC4	SI DIODE	
D941	MTZJ33A-T2	Z DIODE	
D945	MTZJ9-1B-T2	Z DIODE	
D952	1SS133-T2	SI DIODE	
D953	1SS133-T2	SI DIODE	
D954	1N4002G-T2	SI DIODE	
D955	1N4002G-T2	SI DIODE	
D956	1N4002G-T2	SI DIODE	
D957	1N4002G-T2	SI DIODE	
D972	MTZJ15C-T2	Z DIODE	
D973	1SS133-T2	SI DIODE	

<b>TRANSISTOR</b>			
Q001	UN2212-X	DIGI TRANSISTOR	
Q101	2SC5083/L-P/-T	TRANSISTOR	
Q131	2SB709A/QR/-X	TRANSISTOR	
Q161	2SD601A/QR/-X	TRANSISTOR	
Q211	2SD601A/QR/-X	TRANSISTOR	

[ AV-32D303/Y, AV-32D203/Y ]

△ Symbol No.	Part No.	Part Name	Description
<b>TRANSISTOR</b>			
Q232	2SD601A/QR/-X	TRANSISTOR	
Q233	2SD601A/QR/-X	TRANSISTOR	
Q352	2SD601A/QR/-X	TRANSISTOR	
Q431	UN2212-X	DIGI TRANSISTOR	
Q501	2SC4212/Z1/	TRANSISTOR	
△ Q511	2SD2645-YD	POWER TRANSISTO	H. OUT
Q531	2SC2785/JH/-T	SI TRANSISTOR	
Q532	2SB709A/QR/-X	TRANSISTOR	
Q541	2SB709A/QR/-X	TRANSISTOR	
Q542	2SB709A/QR/-X	TRANSISTOR	
Q543	2SD1408/OY/-LB	POW TRANSISTOR	
Q622	2SD601A/QR/-X	TRANSISTOR	
Q623	UN2212-X	DIGI TRANSISTOR	
Q701	2SB709A/QR/-X	TRANSISTOR	
Q951	2SD1383K/AB/-X	TRANSISTOR	
Q971	2SA1208/ST/Z1-T	TRANSISTOR	
<b>IC</b>			
IC101	M52342SP	IC	
IC201	TH8812CSBNG3U68	IC	
△ IC421	LA7841	IC	
IC621	LA4485	IC	
IC702	AT24C08-32D503	IC	(SERVICE)
IC703	S-80840ANY-T	IC	
IC704	AN78L05-T	IC	
IC852	AN7809F	IC	or BA17809T
IC853	AN7805F	IC	or BA17805T
△ IC911	STR-G6624/F8	IC	
△ IC921	SE135N	IC	
<b>OTHERS</b>			
CF001	QAX0349-001	C TRAP	
CF131	QAX0639-001Z	C TRAP	
CF161	QAX0642-001Z	C FILTER	
CN001	QGB1505J1-35	B TO B CONNE	
CN004	QGA2501C5-05Z	W TO B CONNE	
CN005	QGA2501C5-04Z	W TO B CONNE	
CN007	QGA2501C5-07Z	W TO B CONNE	
△ CN0PM	QMPD390-200-JS	POWER CORD	or QMPD200-200-JC
△ CP932	ICP-N70-T	C PROTECTOR	
△ CP936	ICP-N70-T	C PROTECTOR	
△ F901	QMF0007-5R0J1	FUSE	5.0A or QMF51U1-5R0-J8
△ F905	QMF2049-5R0Z-E	FUSE	5.0A
FC901	CEM0002-001Z	FUSE CLIP	
FC902	CEM0002-001Z	FUSE CLIP	
△ FR525	QRZ9017-4R7	F R	4.7 Ω 1/4W J
△ FR527	QRZ9011-470	F R	47Ω 1/2W J
J601	QNN0349-002	PIN JACK	
J810	QNS0001-001	JACK	
K401	QQR0621-002Z	FERRITE BEADS	
K912	QQR0582-001Z	FERRITE BEADS	
K916	QQR0582-001Z	FERRITE BEADS	
K917	QQR0582-001Z	FERRITE BEADS	
K918	QQR0582-001Z	FERRITE BEADS	
K931	QQR0582-001Z	FERRITE BEADS	
K932	QQR0582-001Z	FERRITE BEADS	
K933	QQR0621-002Z	FERRITE BEADS	
K935	QQR0582-001Z	FERRITE BEADS	
LC601	QQR1199-001	EMI FILTER	
LC602	QQR1199-001	EMI FILTER	
LC603	QQR1199-001	EMI FILTER	
△ LF901	QQR1085-003	LINE FILTER	or QQR0527-003
△ PC921	TLP421F/D4-GV	IC(PHOTO COUPLE	
△ RY951	QSK0086-001	RELAY	or QSK0130-001, QSK0085-001
S421	QSL4A13-C02	LEVER SWITCH	
SF101	QAX0723-001	SAW FILTER	
△ TH901	QAD0132-3R0	P THERMISTOR	
△ TU001	QAU0274-001	TUNER	
△ VA901	ERZV10V621CS	ZNR	
X701	QAX0717-001Z	CRYSTAL	

**CRT SOCKET P.W. BOARD ASS'Y (SGE-3004A-M2)**

Refer to PARTS LIST in page 55 for this P.W. board

**AV SELECTOR P.W. BOARD ASS'Y (SGE-5001A-M2)**

Refer to PARTS LIST in page 45 for this P.W. board

**FRONT AV IN P.W. BOARD ASS'Y (SGE-6001A-M2)**

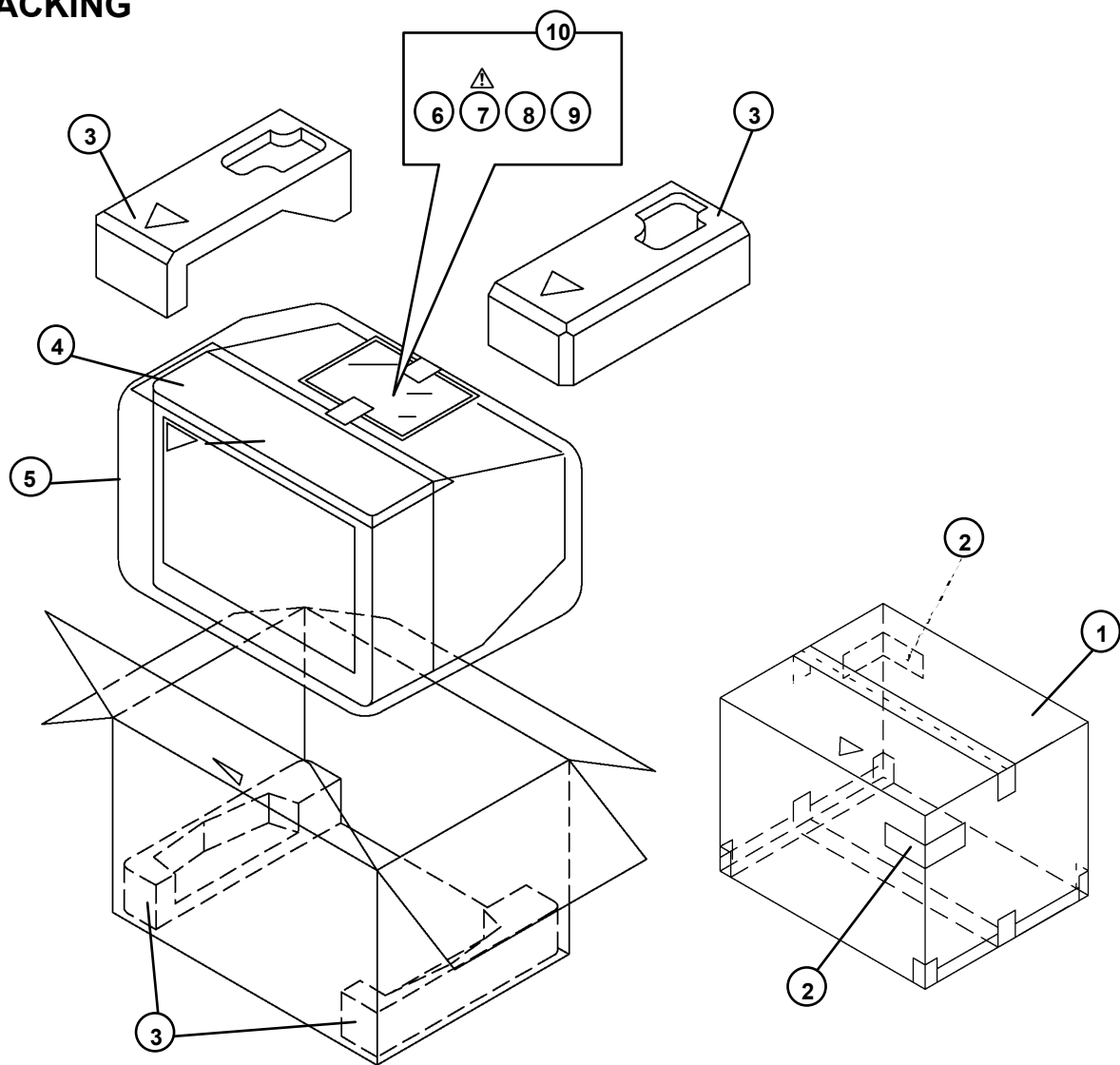
Refer to PARTS LIST in page 46 for this P.W. board

**FRONT CONTROL P.W. BOARD ASS'Y (SGE-7001A-M2)**

Refer to PARTS LIST in page 46 for this P.W. board

[ AV-32D303 / AV-32D203 ]

PACKING



PACKING PARTS LIST

△ Ref.No.	Part No.	Part Name	Description
1	LC10058-009A	PACKING CASE	
2	CM36616-001-A	CORNER LABEL	2pcs in 1set
3	LC10365-001D	CUSHION ASSY	4pcs in 1set
4	CP30611-A02	TOP COVER	
5	AP3756-11	POLY COVER	
6	RM-C252-1H	REMOCON UNIT	
△ 7	LCT1128-001A-A	INST BOOK	
8	BT-51028-2Q	REGISTRATION CARD	
9	BT-52006-1	WARRANTY CARD	
10	QPA02503505	POLY BAG	

REMOTE CONTROL UNIT PARTS LIST (RM-C252-1H)

△ Ref.No.	Part No.	Part Name	Description
	UR77EC0603	BATTERY COVER	



**Memo**

..  
AV-32D303  
AV-32D203

...

---

---

**Memo**

---

---

---

**Memo**


---

# AV-32D503/M/R/Y,AV-32D303/M/R/Y,AV-32D203/M/R/Y

## STANDARD CIRCUIT DIAGRAM

### ■ NOTE ON USING CIRCUIT DIAGRAMS

#### 1.SAFETY

The components identified by the  symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

#### 2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	: Colour bar signal
(2)Setting positions of each knob/button and variable resistor	: Original setting position when shipped
(3)Internal resistance of tester	:DC 20kΩ /V
(4)Oscilloscope sweeping time	:H ⇒ 20μS/div :V ⇒ 5mS/div :Others ⇒ Sweeping time is specified
(5)Voltage values	:All DC voltage values

\* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

#### 3.INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board :R1209 → R209

#### 4.INDICATIONS ON THE CIRCUIT DIAGRAM

##### (1)Resistors

● Resistance value

No unit	:{ Ω }
K	:{K Ω }
M	:{M Ω }

● Rated allowable power

No indication	:1/ 16 [W]
Others	:As specified

● Type

No indication	:Carbon resistor
OMR	:Oxide metal film resistor
MFR	:Metal film resistor
MPR	:Metal plate resistor
UNFR	:Uninflammable resistor
FR	:Fusible resistor

\* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

##### (2)Capacitors

● Capacitance value

1 or higher	:{pF}
less than 1	:{μF}

● Withstand voltage

No indication	:DC50[V]
Others	:DC withstand voltage [V]
AC indicated	:AC withstand voltage [V]

\* Electrolytic Capacitors

47/50[Example]:Capacitance value [μF]/withstand voltage[V]

● Type

No indication	:Ceramic capacitor
MM	:Metalized mylar capacitor
PP	:Polypropylene capacitor
MPP	:Metalized polypropylene capacitor
MF	:Metalized film capacitor
TF	:Thin film capacitor
BP	:Bipolar electrolytic capacitor
TAN	:Tantalum capactor

##### (3)Coils

No unit	:[ μH]
Others	:As specified

##### (4)Power Supply



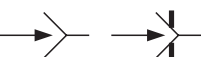
	:B1		:B2 (12V)
	:9V		:5V

\* Respective voltage values are indicated





##### (5)Test point

	:Test point		:Only test point display
---	-------------	---	--------------------------



##### (6)Connecting method

	:Connector		:Wrapping or soldering
	:Receptacle		

##### (7)Ground symbol

	:LIVE side ground
	:ISOLATED(NEUTRAL) side ground
	:EARTH ground
	:DIGITAL ground

### 5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (  ) side GND and the ISOLATED(NEUTRAL) : (  ) side GND.Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus ( oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

◇ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

NOTE  
◇ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.  
When ordering parts, please use the numbers that appear in the Parts List.

CONTENTS

SEMICONDUCTOR SHAPES	2-2
----------------------	-----

BLOCK DIAGRAM	2-3
---------------	-----

CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM	2-7
AV SEL PWB CIRCUIT DIAGRAM	2-11
PIP PWB CIRCUIT DIAGRAM	2-13
CRT SOCKET PWB CIRCUIT DIAGRAM	2-15
FRONT CONTROL PWB CIRCUIT DIAGRAM	2-17
FRONT AV IN PWB CIRCUIT DIAGRAM	2-18

PATTERN DIAGRAMS

MAIN PWB PATTERN	2-19
AV SEL PWB PATTERN	2-21
CRT SOCKET PWB PATTERN	2-23
PIP PWB PATTERN	2-24
FRONT CONTROL PWB PATTERN	2-25
FRONT AV IN PWB PATTERN	2-25

CHANNEL CHART (US)	2-26
--------------------	------

CHANNEL CHART (CA)	2-27
--------------------	------

SEMICONDUCTOR SHAPES

TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW

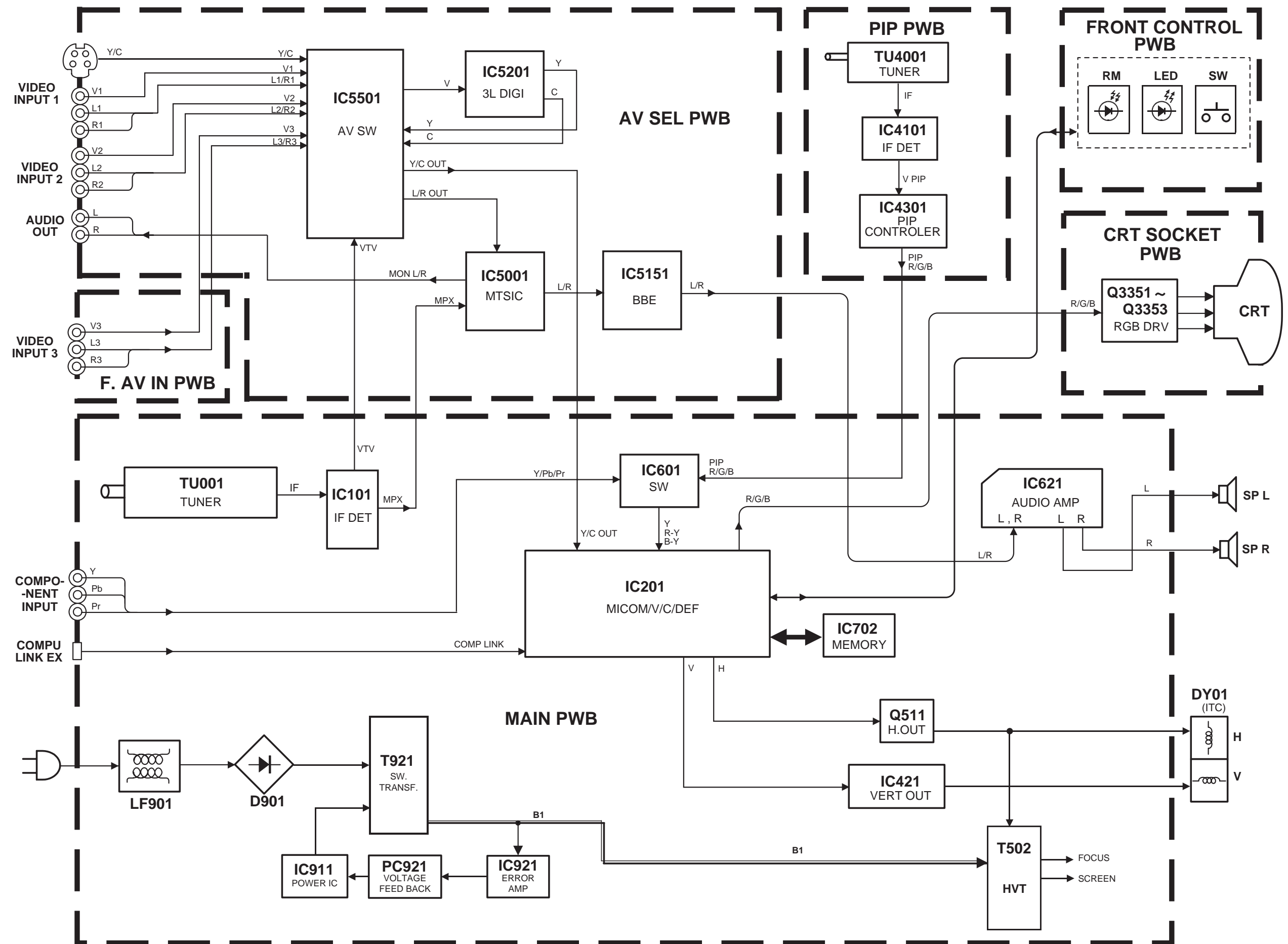
CHIP IC

TOP VIEW	

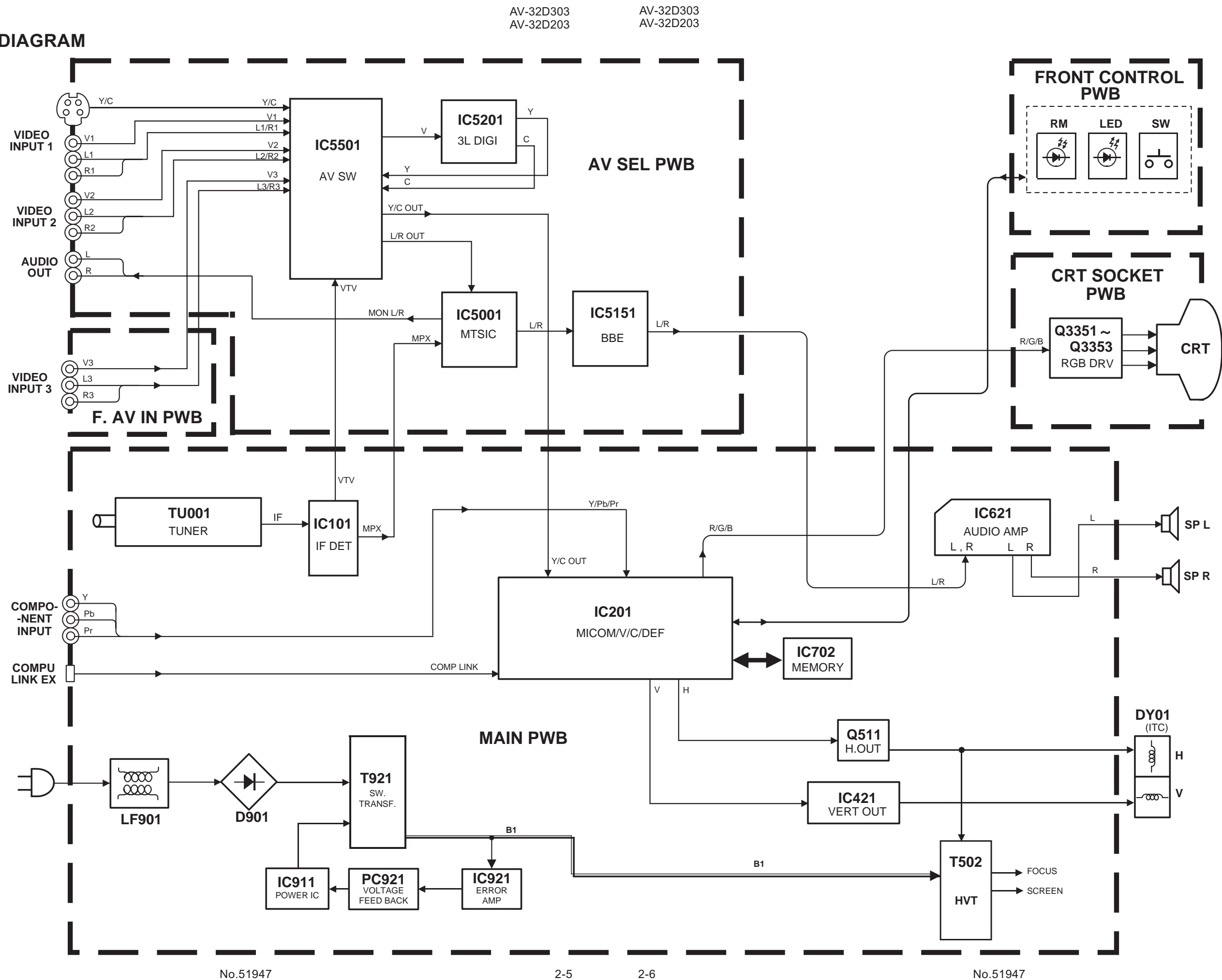
CHANNEL CHART (CA)

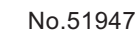
MODE		BAND	CHANNEL		TUNER BAND	
TV	CATV		REAL	DISP.		
○	○	VL	02		I	
			03			
			04			
			05			
			06			
		VH	07			
08						
09						
10						
11						
12						
13						
×	○	MID	A	14	II	
			B	15		
			C	16		
			D	17		
			E	18		
			F	19		
			G	20		
			H	21		
			I	22		
		SUPER	J	23		
			K	24		
			L	25		
			M	26		
			N	27		
			O	28		
			P	29		III
			Q	30		
			R	31		
		S	32			
		T	33			
		U	34			
		V	35			
		W	36			
		HYPER	W+1	37		
			W+2	38		
			W+3	39		
			W+4	40		
			W+5	41		
			W+6	42		
			W+7	43		
			W+8	44		
			W+9	45		
			W+10	46		
			W+11	47		
			W+12	48		
			W+13	49		
			W+14	50		
			W+15	51		
			W+16	52		
			W+17	53		
			W+18	54		
			W+19	55		
			W+20	56		
			W+21	57		
			W+22	58		
			W+23	59		
			W+24	60		
		W+25	61			
W+26	62					
W+27	63					
W+28	64					
ULTRA	W+29	65	IV			
	W+30	66				
	W+31	67				
	W+32	68				
	W+33	69				
	W+34	70				

## BLOCK DIAGRAM

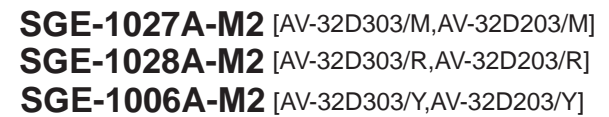


BLOCK DIAGRAM





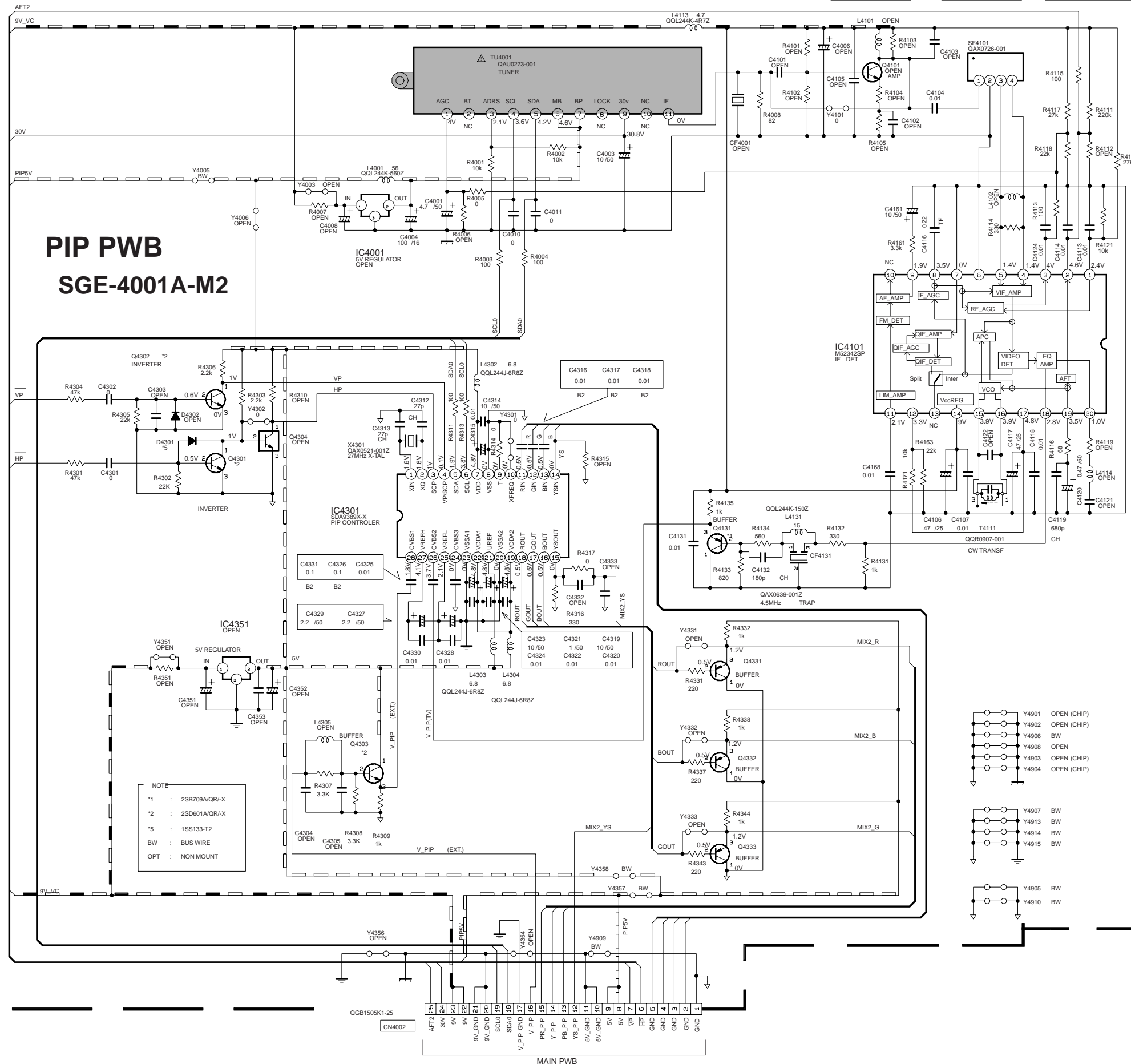


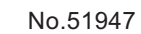


Audio Out

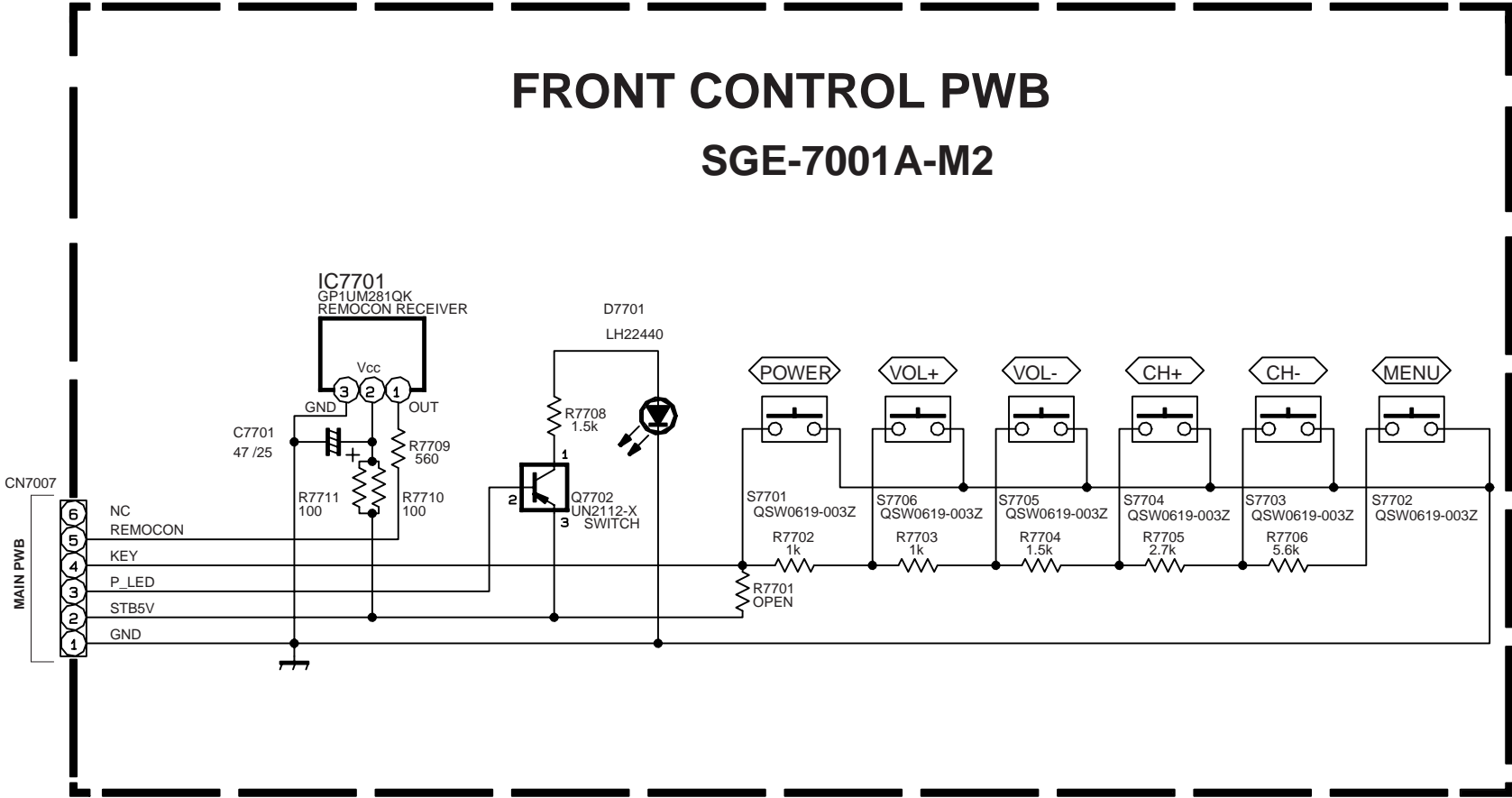


**PIP PWB**  
**SGE-4001A-M2**

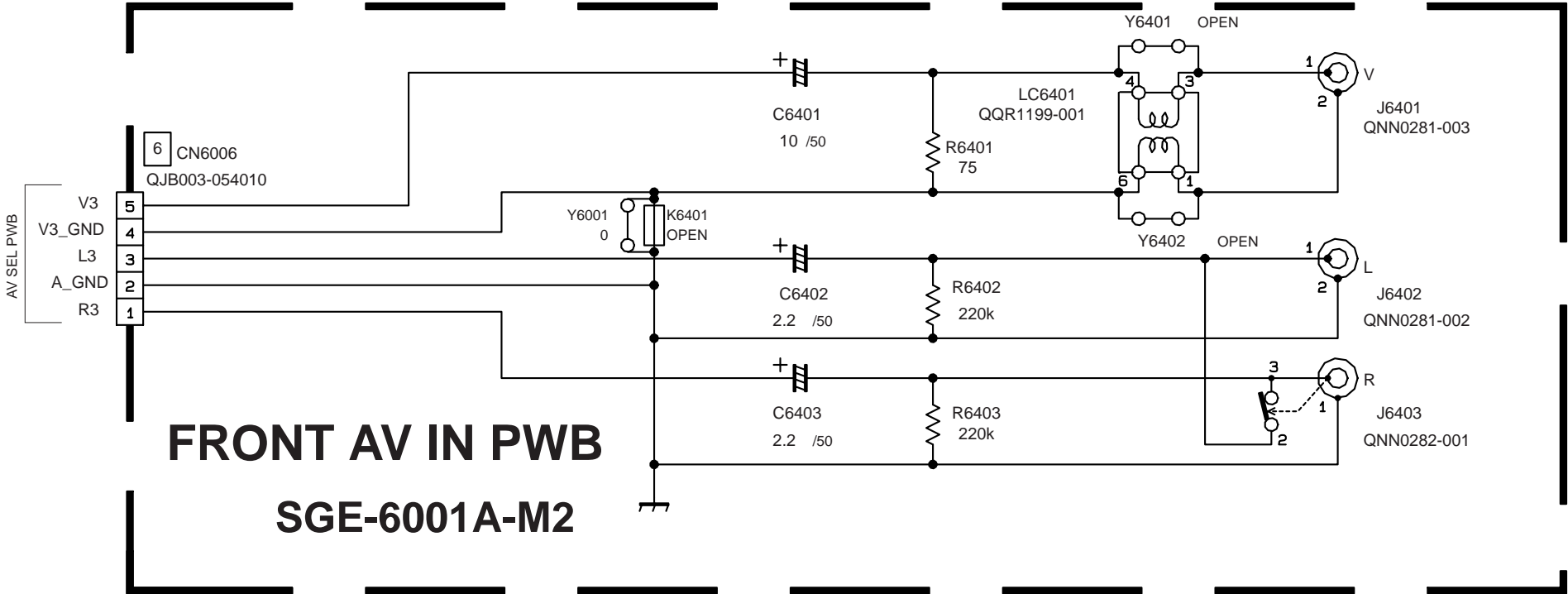




FRONT CONTROL PWB CIRCUIT DIAGRAM



FRONT AV IN PWB CIRCUIT DIAGRAM





TP-E  
( $\frac{1}{\pi\pi}$ )

- TP-91  
(B1)

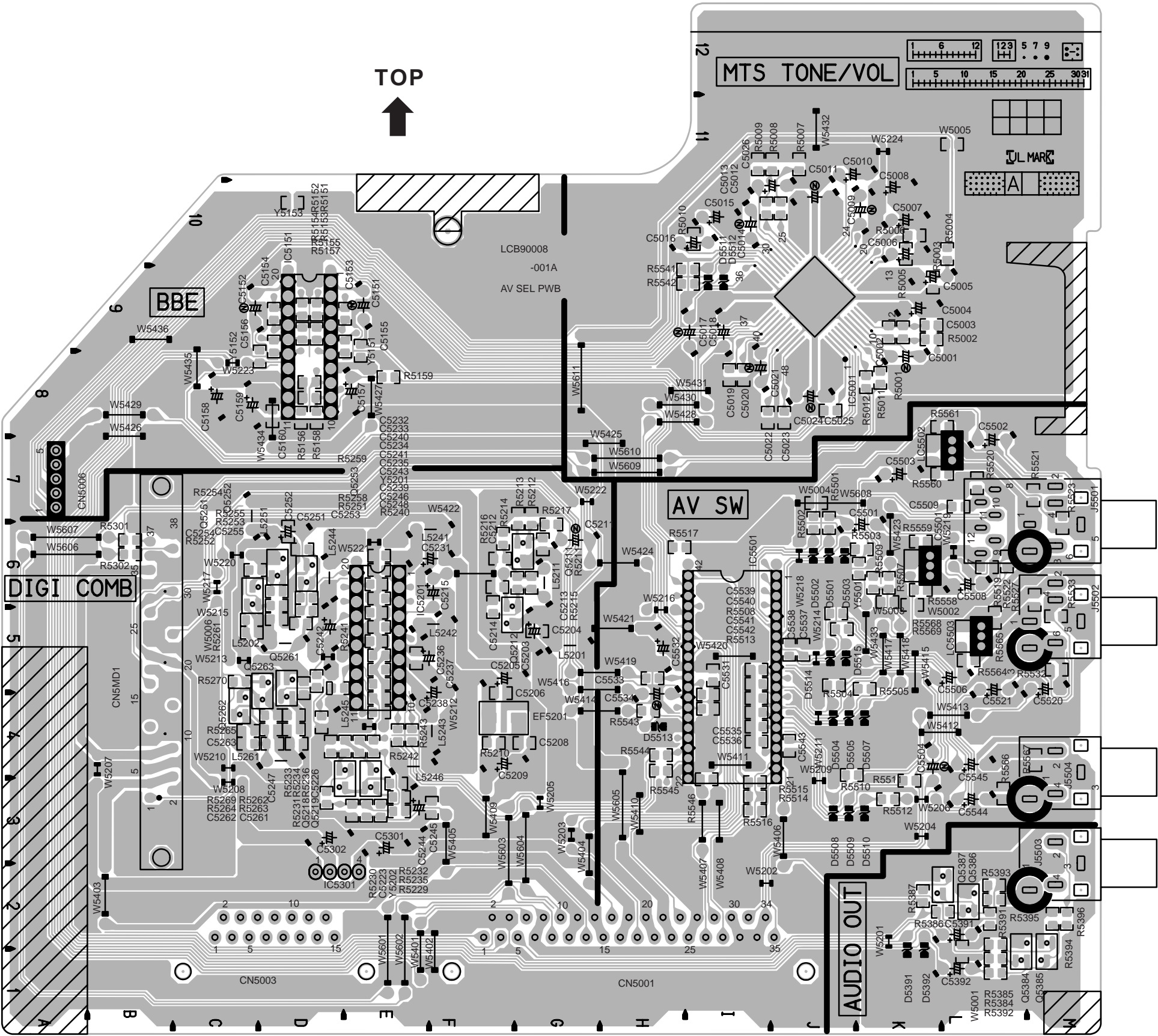
(⊥)

# FRONT



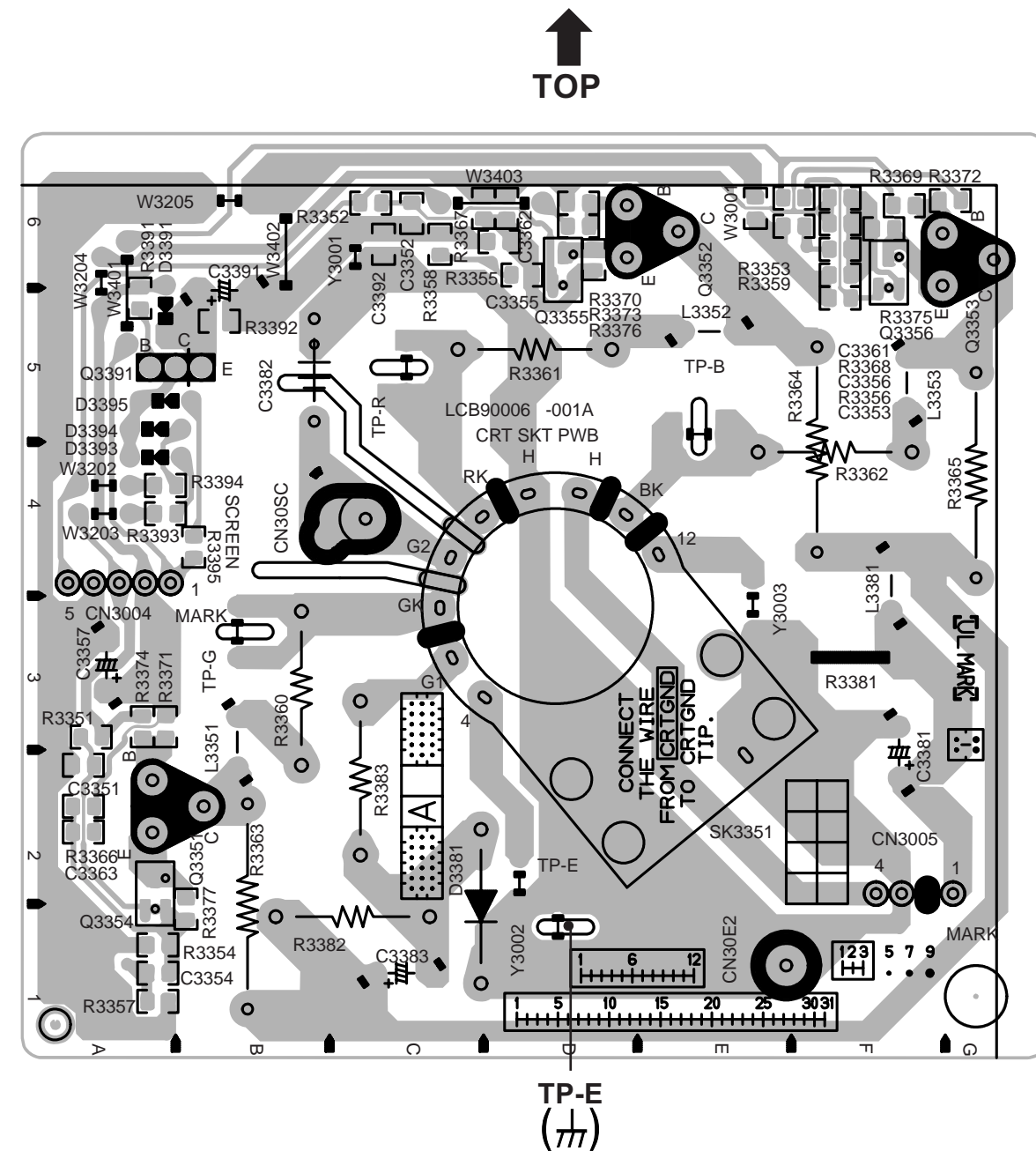
AV-32D503  
AV-32D303  
AV-32D203

AV-32D503  
AV-32D303  
AV-32D203



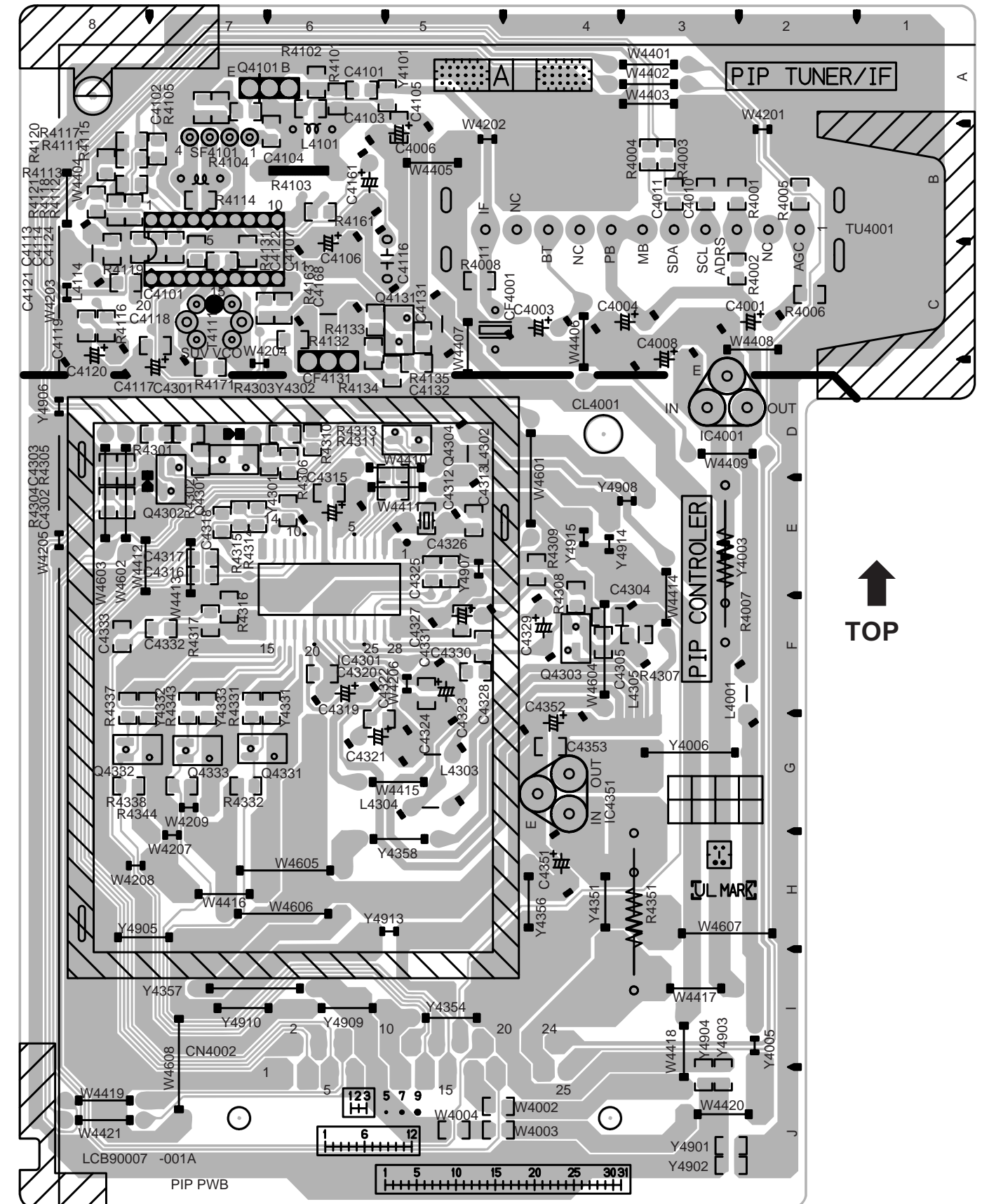


CRT SOCKET PWB PATTERN



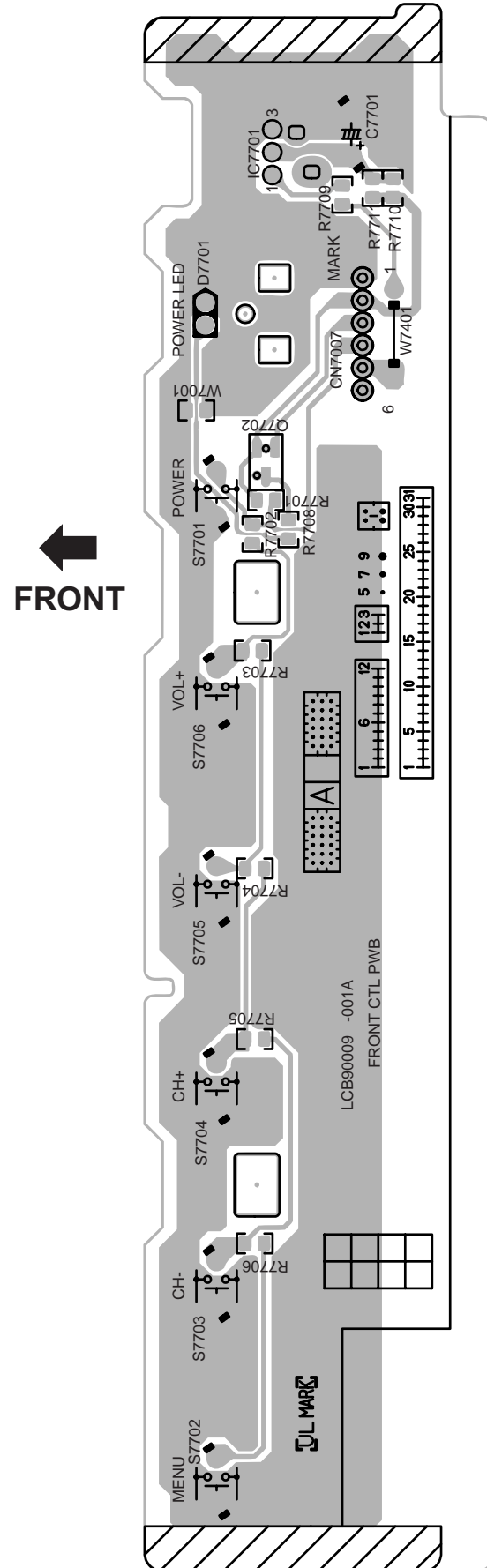
AV-32D503  
AV-32D303  
AV-32D203

PIP PWB PATTERN

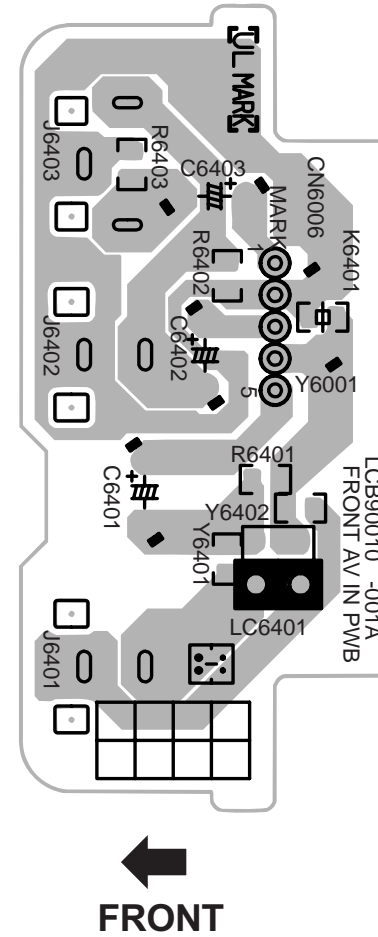




### FRONT CONTROL PWB PATTERN



**FRONT AV IN PWB PATTERN**



## CHANNEL CHART (US)

MODE		BAND	CHANNEL		TUNER BAND				
TV	CATV		REAL	DISP.					
○	○	VL	02 03 04 05 06	I					
		VH	07 08 09 10 11 12 13	II					
×	○	MID	A B	14 15	I				
			C D E F G H I	16 17 18 19 20 21 22	II				
			SUPER	J K L M N O P Q R S T U V W		23 24 25 26 27 28 29 30 31 32 33 34 35 36			
				HYPER		W+1 W+2 W+3 W+4 W+5 W+6 W+7 W+8 W+9 W+10 W+11	37 38 39 40 41 42 43 44 45 46 47	IV	
						W+12 W+13 W+14 W+15 W+16 W+17 W+18 W+19 W+20 W+21 W+22 W+23 W+24 W+25 W+26 W+27 W+28	48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64		
						ULTRA	W+29 W+30 W+31 W+32 W+33 W+34		65 66 67 68 69 70

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+35	71	IV
			W+36	72	
			W+37	73	
			W+38	74	
			W+39	75	
			W+40	76	
			W+41	77	
			W+42	78	
			W+43	79	
			W+44	80	
			W+45	81	
			W+46	82	
			W+47	83	
			W+48	84	
			W+49	85	
			W+50	86	
			W+51	87	
			W+52	88	
			W+53	89	
			W+54	90	
			W+55	91	
			W+56	92	
			W+57	93	
			W+58	94	
			W+59	100	
			W+60	101	
			W+61	102	
			W+62	103	
			W+63	104	
			W+64	105	
		W+65	106		
		W+66	107		
		W+67	108		
		W+68	109		
W+69	110				
W+70	111				
W+71	112				
W+72	113				
W+73	114				
W+74	115				
W+75	116				
W+76	117				
W+77	118				
W+78	119				
W+79	120				
W+80	121				
W+81	122				
W+82	123				
W+83	124				
W+84	125				
		SUB MID	A-8 A-4 A-3 A-2 A-1	01 96 97 98 99	I
○	×	UHF	14 } 69		IV
TOTAL 180CH { VHF 124CH { UHF 56CH					
NOTE: TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES. SPECIAL ADAPTERS MAY BE REQUIRED.					